Penticton
CELEBRATING A CENTURY
1908 -2008

City of Penticton Advanced Wastewater Treatment Plant

Operational Certificate PE12212

AWWTP 2006 Annual Report

Executive Summary

Overview

The Advanced Wastewater Treatment System monitoring program was completed using data compiled from January 2006 to December 2006 in accordance with Operational Certificate PE 12212 issued by the Ministry of Water, Land & Air Protection. Additional monitoring and testing of the Wastewater Treatment system was carried out for operational and maintenance purposes. Monthly laboratory results were sent to the Ministry of Environment, as well as a yearly report for 2005. As stated in PE 12212 Section 7.2.3 "The first report is due on or before within 60 days of the end of a calendar year for that year's monitoring. [*Sic*]".

Collection System

The gravity sanitary sewer system is maintained by the Works dept. of the City of Penticton. The Wastewater Treatment Div. looks after the ten Lift stations that collect the wastewater from the gravity system and they then pump the wastewater to the Wastewater Treatment Plant on Waterloo Ave.

A spare pump was purchased for Lee Ave. lift station, as this a large station at the south end of town and is nearing capacity. The last upgrade to Lee Ave. Lift station was in 1996. The pump was installed in July, as one of the current pumps had failed. The pump that had failed has since been rebuilt and used as a back up. The station is scheduled for replacement in late 2007 or early 2008.

The other large station at the North end of town, Alberni Ave. is scheduled for replacement in 2007, due to the construction of South Okanagan Events Centre (SOEC).

Lift Station Goals & Objectives completed for 2006 included:

- Spare pump for Lee Ave.
- Commissioning of new Wilson St. Lift station.
- Preliminary design, detailed design and start of construction for a Chemical dosing facility at Lakeside North lift station.
- Preliminary design of Alberni Ave.
- Annual inspections of all lift station pumps and repairs to worn out parts.

Lift Station Goals & Objectives planned for 2007 include:

- Preliminary design, detailed design and construction of Lee Ave. lift station and force main to WWTP.
- Preliminary design, detailed design and construction of Alberni Ave. lift station and re alignment of force main.
- Annual pump inspections and repairs.
- Purchase spare pump for Lakeside South lift station.

Raw Wastewater

In 2006 the Advanced Wastewater Treatment Plant (AWWTP) received 5,061 Million Litres (ML) of influent from the sanitary sewer system. Compared to 2005's influent flow of 5,087 ML. This decrease in flow may be the result of the Cities initiative in water conservation. The 2006 average daily influent flow rate was 13.8 ML/day. The average influent flow rate per person was 400 litres/day/person, based on the 2006 Penticton population estimate of 34,669 people (from 1996-2006 BC Stats) http://www.bcstats.gov.bc.ca/DATA/pop/pop/mun/Mun9606a.asp

Sanitary Influent Monitoring (EMS # 0500232)[1] to Advanced Wastewater Treatment System						
Parameter[2]	PE 12212 Sampling Frequency Requirements	WWTP Sampling Frequency	PE 12212 Parameter Values for 0500232	2006 Influent Quality Data		# of Tests
Yearly Averaged Flow	N/A	Daily	N/A	13.8	ML/day	365
Chemical Oxygen Demand (COD)	N/A	Once per Week	N/A	315	mg/l	103
Total Suspended Solids (TSS)	N/A	Weekly	N/A	266	mg/l	12
Total Phosphorus as P	Monthly	Monthly	N/A	6.4	mg/l	14
Ortho Phosphorus	Monthly	Weekly	N/A	2.7	mg/l	118
Total Nitrogen as N[3]	Monthly	Monthy	N/A	34.9	mg/l	
Ammonia Nitrogen	N/A	Weekly	N/A	22.0	mg/l	57
Nitrate Nitrogen	N/A	Weekly	N/A	0.7	mg/l	41
Total Kjeldahl Nitrogen	N/A	Monthly	N/A	34.2	mg/l	15
pH	Monthly	Weekly	N/A	7.6		119

[1] EMS is the "Environmental Monitoring System" numbers set up by the Ministry of Water, Land & Air Protection for PE 12212

[2] Unless otherwise stated, Parameter values are yearly averages.

[3] Influent Total Nitrogen (mg/L) = Monthly Average TKN + Monthly Average NO_3^- + NO_2^-

Table 1 – Sanitary Influent Monitoring (EMS #0500232), Advanced Wastewater Treatment System

Table 1 was compiled using the parameters set out by the Ministry of Water, Air & Land Protection. These parameters are found in Operational Certificate PE 12212, which regulates the AWWTP operational activities (issued March 20, 1995).

The sanitary influent values have not changed significantly, and are typical of raw sewage.

Treatment Plant

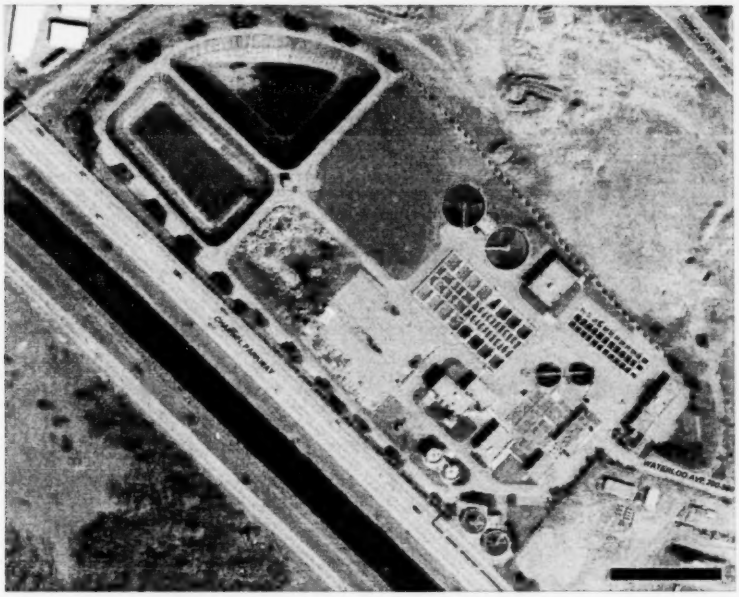

Figure 1 – Aerial view of AWWTP

The Plant in 2006 continued it's historic levels of Phosphorus and Nitrogen removal.

Treatment Plant Goals & Objectives completed for 2006 included:

- Liquid Waste Management Plan 95 % completed.
- Aeration automation, which included the addition of a new PLC and 8 automated valves that control the dissolved oxygen levels.
- Negotiation's with Regional District of Okanagan Similkameen to move the septage receiving from Campbell Mountain Landfill to the City of Penticton's AWWTP. Preliminary design of the Septage receiving facility completed.
- A three year training plan for staff is in it's second year and continues to promote the development and retention of staff.
- Preliminary, detailed design and start of construction of a chemical dosing facility to be constructed at Lakeside North lift station to correct an ongoing odour problem for residents of Lakeside Rd.
- Contaminated site remediation work. Two site inspections and tracking activities.
- 11 out of 12 capital upgrade projects planned this year were completed
- Restructuring of the Lab routine. The Lab Technician position was vacated and staff recommended that the position be included in the daily operator's duties, with the purchase of some new equipment to replace aging wet chemistry methods and a modified lab schedule, this restructuring has proven to be a great success and adds improved cross training.

- Implementation of a fall protection plan for the WWTP, which included the installation of roof top railings identified as high hazard roof top areas.
- Several staff led innovations were put into place. See **2.4.2**

Treatment Plant Goals & Objectives planned for 2007:

- Preliminary design, detailed design and value analyses for the AWWTP plant expansion. That will incorporate the chosen option from the LWMP.
- Preliminary design, detailed design and construction for the replacement of Alberni Ave. Lift station, in conjunction with the construction of the South Okanagan Events centre, which includes relocation of a forcemain and sanitary sewer.
- Lakeside Rd. (Lakeside North lift station) chemical dosing facility construction. Contract administration done in house by Wastewater Treatment Supervisor.
- Continue with the annual equipment upgrading program that is set out in the budget, which is designed to maintain reliable and efficient operation of the WWTP.
- Detailed design and construction of a septage receiving facility at the AWWTP.
- Preliminary design, detailed design and construction of a new effluent line to south end of Penticton that will be used for expanding the effluent irrigation system and effluent disposal in the busy summer months.
- Preliminary design, detailed design and construction for the replacement of Lee Ave. lift station and a new force main to the treatment plant.
- Continue to introduce new technology into the treatment systems which will then help to produce safe waters.
- Support the direction from council for the sewer connection of the Penticton Indian Band areas into the WWTP.
- Maintain a full complement of staff to help support operation activities during the year in which larger capital projects are proposed.
- Meet the divisional performance measures that are set for the WWTP.

The City of Penticton in 2005 amended the sewer use Bylaw, combining it with the Irrigation and Water Bylaws. The new bylaw 2005-02 is now referred to as the Irrigation, Sewer and Water Bylaw.
http://www.penticton.ca/city/city_clerk/Bylaws/Bylaw-2005-02-Irrigaton-Sewer-and-Water.pdf

Effluent discharge to Okanagan River Channel

In 2006 the AWWTP discharged 3,960 Million Litres (ML) of effluent to the Okanagan river channel. The AWWTP average effluent discharge flow to the Okanagan river channel in 2006 was 10.8 ML/day, compared to an average effluent discharge flow to the Okanagan river channel of 12.1 ML/day in 2005. In the last two months of 2006 we had some problems with our effluent flow meter and the yearly effluent flow data had to be extrapolated

Discharge Effluent Monitoring (EMS #E105000) [1] from Advanced Wastewater Treatment System						
Parameter [2]	**PE 12212 Sampling Frequency Requirements**	**WWTP Sampling Frequency**	**PE 12212 Parameter Values for E105000**	**2006 Effluent Quality Data**		**# of Tests**
Maximum One-day Flow	Daily	Daily	< 18.2 ML/day	15.3	ML/day (Nov. 18)	365
Yearly Averaged Flow	Daily	Daily	< 15.8 ML/day	10.8	ML/Day	365
Maximum Monthly Averaged Flow	Daily	Daily	< 16.8 ML/day	12.8	ML/day (March)	365
5 day Biochemical Oxygen Demand (BOD)	Monthly	Monthly	< 10 mg/l	<5	mg/l	12
Chemical Oxygen Demand (COD)	Daily	Daily	N/A	41	mg/l	354
Total Suspended Solids (TSS)	Monthly	Monthly	< 10 mg/l	0.5	mg/l	14
Total Phosphorus as P Not to exceed	310	Daily	< 2.0 mg/l	0.21	mg/l (Nov 21)	1
Total Phosphorus as P 99 percentile [3]	237.5	Daily	< 1.5 mg/l	0.21	%	331
Total Phosphorus as P 90 percentile [4]	Weekly	Daily	< 1.0 mg/l	0.14	%	331
Total Phosphorus as P Annual Average	Weekly	Daily	< 0.25 mg/l	0.11	mg/l	331
Total Phosphorus as P Level to Strive for	Weekly	Daily	<0.01 mg/l			
Ortho Phosphorus	Daily	Daily	N/A	0.05	mg/l	365
Total Nitrogen as N	Weekly	Daily	< 6.0 mg/l	**6.9**	**mg/l**	363
Ammonia Nitrogen	Weekly	Daily	N/A	0.50	mg/l	180
Nitrate Nitrogen	Weekly	Daily	N/A	5.4	mg/l	181
Total Kjeldahl Nitrogen	N/A	Daily	N/A	1.49	mg/l	335
Total Chlorine residual immediately prior to dechlorination	Continuously	Daily [6]	> 0.5 mg/l	1.21	mg/l	365
Total Chlorine residual after dechlorination	Continuously	Daily [6]	< 0.0 mg/l	**0.008**	**mg/l**	365
Total Coliforms	Weekly	Weekly	N/A	4.9	MPN	55
Fecal Coliforms	Weekly [7]	Weekly	< 50 MPN	0.7	MPN	52
pH	Daily	Daily	N/A	7.1		362

Bold Items Indicate an exceeding of Permit Parameters

[1] EMS is the "Environmental Monitoring System" numbers set up by the Ministry of Water, Land & Air Protection for PE 12212

[2] Unless otherwise stated, Parameter values are yearly averages.

[3] 99 percentile means one of a set of points on a scale arrived at by dividing a group into parts in order of magnitude. For example, a score equal to or greater than 99 percent of those attained on an examination is said to be in the 99th percentile.

[4] 90 percentile means one of a set of points on a scale arrived at by dividing a group into parts in order of magnitude. For example, a score equal to or greater than 90 percent of those attained on an examination is said to be in the 90th percentile.

[5] Effluent Total Nitrogen (mg/L) = Average(Daily TKN + Daily NO3- + NO2-)

[6] A chlorine meter is used continuously to control Chlorine dosing. A second chlorine meter reads total chlorine residual before de-chlorination.

[7] Increasing to daily if an analysis of over 50 MPN Fecal Coliform is recorded during the summer season.

Table 2 – Discharge Effluent Monitoring (EMS #E105000), Advanced Wastewater Treatment Plant

Table 2 was compiled using the parameters set out by the Ministry of Water, Air & Land Protection. These parameters are found in Operational Certificate PE 12212, which regulates the AWWTP operational activities (issued March 20, 1995).

Effluent Irrigation to Parks & Golf Course

Effluent irrigation in 2006 was 591 ML total flow, compared to 441 ML in 2005. Irrigation took place between April 1st and Oct. 25th, 2006. Two city parks, Kings & Queens, as well as the Penticton Golf & Country club receive effluent for irrigation purposes. Historic irrigation flows vary from year to year due to several factors; precipitation, increases in irrigation acreage, length of the growing season, etc.

With the construction of the SOEC the Irrigation of Queens park area will lost, there will some irrigation water required for the SOEC. There is also an option to run the effluent line to near by school grounds.

Okanagan River Channel Monitoring

Receiving water impact monitoring is required under PE 12212. The Upstream Monitoring location (EMS# 0500050) is located at the Coyote Cruises loading site near Okanagan Lake. The Downstream Monitoring location (EMS# 0500050) is located at the river off landing upstream of Shingle creek. For details see **2.3.4.**

The yearly average was .9 MPN for fecal coliforms in the effluent, and the effluent fecal coliform count was lower than the Upstream (131 MPN) and Downstream (116 MPN) Fecal coliform count.

Operating Certificate PE 12212 Violations

Total Nitrogen discharges in the effluent exceeded the parameter level of 6.0 mg/l 149 days in 2006. In 2005 we were over 62 times. The yearly average discharge for Total Nitrogen was 6.9 mg/l. This is an ongoing situation the plant has had for a number of years. The bioreactor cannot physically recycle enough flow from the end of the bioreactor to the anoxic zone for de-nitrification. The Ministry of Water, Land & Air Protection is aware of this, but is more concerned with the Phosphorus discharge than the Nitrogen discharge, because Phosphorus is the limiting factor for algal growth in the lake discharge environment.

Total Chlorine level after de-chlorination yearly average was 0.007 mg/l, with grab samples indicating that the parameter of 0.00 mg/l was exceeded 9 times. (See section **2.4.2.2**. for compliance solutions)

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Appendix C Operational Certificate PE 12212

1. Collection system

The City of Penticton's sanitary sewer collection and treatment system consists of 151.3 km of gravity and force main sanitary sewer pipes, which services the entire city and the Penticton airport. There are two main Lift stations; the Lee Ave Lift station services the south part of the city, the Alberni St. Lift station services the north part of the city. As well, there are 8 additional smaller lift stations located throughout Penticton. The majority of the sewage collected by the sanitary system flows by gravity to these Lift stations, where it is then pumped by force mains to the AWWTP located at 459 Waterloo Ave. (see Map A.1.). Some parts of central Penticton's sewage flows directly by gravity service to the AWWTP.

1.1. Lift station Report

All 10 of the Lift stations are inspected once a week by AWWTP staff. Stations are monitored 24 hrs/day by a remote telemetry system. A computerized maintenance system is used to monitor servicing intervals for the various pumps, valves, generators, etc. that are found at each lift station.

1.1.1. Lee Avenue Lift station

The Lee Ave. Lift station is located at the corner of Lee Ave. and Parkview St. in Skaha Park. Lee Ave. Lift station is budgeted for replacement in 2007 and a new forcemain will be constructed directly to the treatment plant. The benefit of this is that it will provide excess capacity for the main trunk from the south end of town. Sanitary sewage flows by gravity from the south end of Penticton into this station. It also receives sewage from the 3 lift stations along East Side Rd., as well as the Airport Lift station flow. Lee Ave Lift station consists of a wet well area, a separate control room and dry well. In the dry well there are two 60 hp Fairbanks Morse Pumps, each rated at 80 Litres/sec and there are provisions to install a third pump in the future as increasing flows warrant. In the control room there is a back up generator to supply power to the station in the event of a power outage. An enzyme degreaser program was run for the 2006 year, due to the build-up of grease on the walls of the wet well. This program continues to provide excellent results and has shown no effect on plant performance.

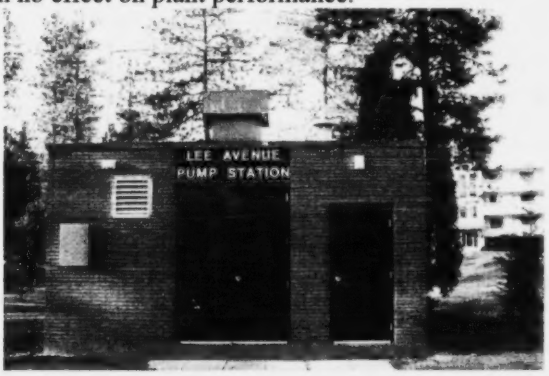


Figure 2 – Lee Ave. Lift station

1.1.2. Alberni Street Lift station

The Alberni St. Lift station is located on Alberni St. behind the Trade and Convention Centre. Alberni Ave Lift station is budgeted for replacement in 2007 due to the construction of the SOEC. Part of that construction will require the forcemain and some gravity sewer lines to be re-aligned. Sanitary sewage flows by gravity from the north end of Penticton into this station. It also receives sewage from the 2 lift stations along Marina Way Rd. Alberni Lift station consists of two sections. The first section is the wet well, which contains three 50 hp Myers Pumps rated at 73 Litres/sec. The second section, the control room, contains the control equipment, plus a back up generator to supply power to the station in the event of a power outage.

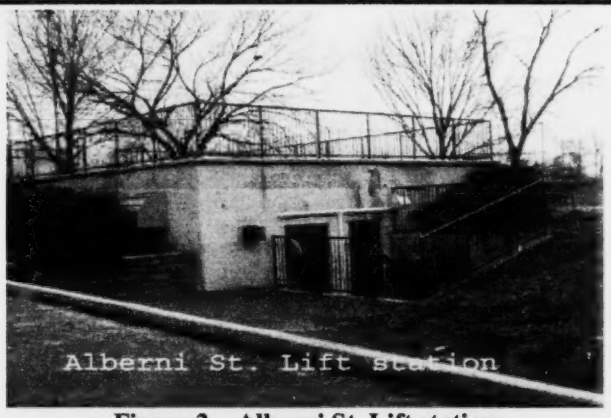


Figure 3 – Alberni St. Lift station

1.1.3. Lift station Repairs & Modifications

A spare pump was purchased for Lee Ave. lift station and was installed in July. The pump that was removed was completely rebuilt and will used as a spare.

Lakeside North, one pump completely rebuilt.

Annual pump inspections performed and various minor repairs performed by WWTP maintenance staff.

1.1.4. Planned Projects for 2007

Replacement of Lee Ave. Lift Station and new Forcemain to treatment plant.

Lakeside Rd. Chemical dosing facility construction and commissioning.

Replacement of Alberni Ave. Lift Station and the re-alignment of the forcemain and some gravity sewer lines.

Purchase a spare pump for Lakeside South Lift station and Airport Lift station.

1.2 Sanitary Sewer System Report

1.2.1 2006

1.2.1.1 Sanitary Sewer Repairs & Modifications

The repair and addition project in 2006 was the commencement of installation of sanitary sewers at Wiltse Boulevard and Evergreen Drive and the point repair on Westminster Avenue from Martin Street west to the lane.

1.2.1.2 The Sanitary Lining Tender 2006

The tender for the lining project was awarded to Insituform Technologies Limited for the price of $ 89, 931.46. The areas lined were on Westminster Avenue West, a lane west of Edgewood Drive and Mckenzie Street, which was a distance of 561 meters.

1.2.1.3 Root Inhibitor Program 2006

The root inhibitor program used for 2006 was Root X and root cutting. The cost for the Root X was $10, 000.00. The crew incorporated the Root X into the sanitary lines and services. After 4 months a review of the lines took place and from that review streets and areas were removed from the list for next year, because of the excellent results that were found. For locations of Root X and root cutting refer to **Appendix A.5.**

1.2.1.4 2006 Grease Cleaning Program

The sanitary lines that were cleaned were on Comox Street, Forbes Street, Wylie Street, Westminster Ave, Skaha Lake Road, Columbia Street, Wade Ave, Green Ave West, Blairmore Street, Nanaimo Avenue, Abbott Street, Lakeshore Drive and Evergreen Drive.

1.2.1.5 2006 Sanitary Video Inspection

Approximately 14 km of the sanitary lines and services in the city were inspected by video in 2006. The sanitary video program is set up to rotate on a 10 year cycle, where every section of sanitary line will be inspected during those years. The tender for the video inspection went to Ray Smith Services. For the locations refer to **Appendix A.8.**

1.2.1.6 Service Interruptions

There were four service interruptions in the city right of way. All were caused by roots and occurred on Penticton Avenue, Grandview Avenue and Edgewood Drive.

1.2.1.7 Main Interruptions

There were no main interruptions in 2006.

1.2.1.8 Maintenance Data Collection

A new data collection system was implemented in 2006. The system, Infrastructure Repairs, collects data when maintenance is done on sanitary main lines and services in the city. The system records if the line had a problem caused by roots, grease, backups or if it needs to be lined.

1.2.2 2007

1.2.2.1 Planned Projects for 2007

Sanitary Sewer lining- $120, 000 – under review.

1.2.2.2 Sanitary Maintenance 2007

Flushing of approximately 55 km of sanitary main lines and services is planned for 2007. The areas where grease accumulates will be cleaned and the Root X and root cutting program has been changed based on the information gathered from 2006. Various streets and areas have been removed or added to ensure the roots are taken care of. To see locations refer to **Appendix A.6.**

1.2.2.3 Sanitary Video 2007

The video inspection for 2007 will cover approximately 13 km of sanitary main lines and services. To see locations for 2007 refer to **Appendix A.9.** From the video inspection information review, the lining project for 2007 will be produced.

2. Advanced Wastewater Treatment Plant

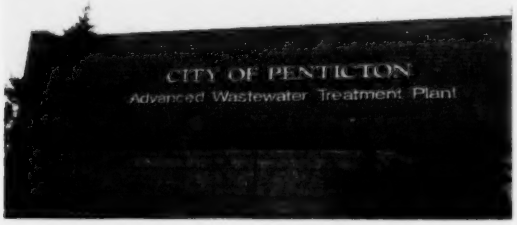


Figure 4 – AWWTP Entrance Sign

The City of Penticton's Advanced Wastewater Treatment Plant is located at 459 Waterloo Ave. (Appendix a Photo A.2). The plant staff includes one (1) Wastewater Operator I, three (3) Wastewater Operator II's, two (2) Wastewater Operator III's, one (1) Millwright, one (1) Electrician, and the Wastewater Treatment Supervisor.

2.1. History

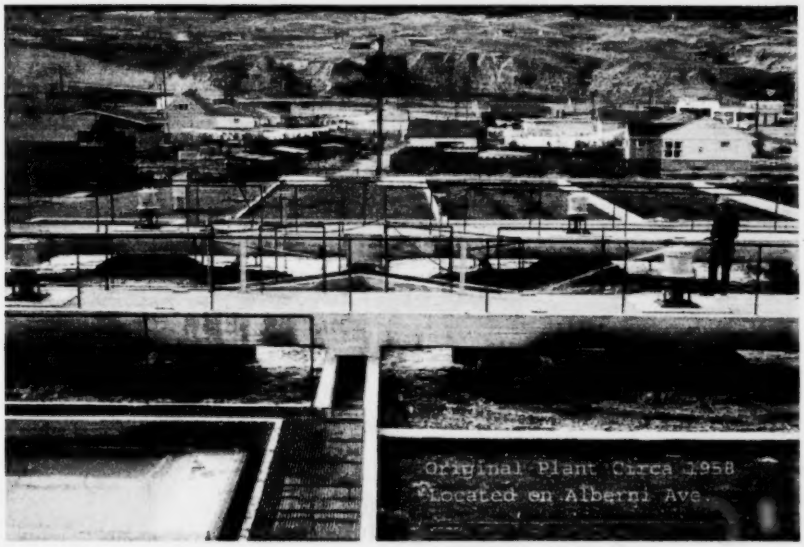


Figure 5 – Original Plant Circa 1958 Located on Alberni Ave.

Sewage treatment started in Penticton in 1948 with a Package Primary / Secondary plant at what is now the Alberni Lift station. The existing plant location has had a Secondary Activated Sludge Treatment Plant since 1960, with a design capacity of 5.5 ML/d. In 1970, the plant capacity was increased to 8.2 ML/d with construction of additional primary and secondary clarifiers, plus chemical coagulation facilities for phosphorus removal. Between 1970 –1985, a number of improvements and increases to the plant's treatment capacity were made to cope with increasing wastewater flows and loads. In 1985 the BC Waste Management Branch prepared a report which reviewed the requirements for discharge of municipal effluents to the Okanagan Lake system. It was determined continued surface discharge of treated effluent to Okanagan Lake, Okanagan River and Skaha Lake would be possible, provided advanced tertiary treatment was implemented to ensure high quality effluent. The report recognized that land application proposals would also require advanced tertiary treatment.

Stanley & Associates Engineering Ltd. completed a Liquid Waste Management Plan for the City in 1987, and was subsequently commissioned by the City to provide design, construction management and plant commissioning services for a new Advanced Wastewater Treatment Plant (AWWTP). The new and expanded AWWTP, with biological nutrient removal, was constructed and commissioned in the fall of 1990. The plant is designed to treat 18.2 ML/d with a hydraulic capacity of 36.2 ML/d. After the plant was commissioned, an optimization study was conducted that showed a capacity up to 28.0 ML/day is available. The BC

Ministry of Environment paid for 75 percent of the cost of the new facility through the Okanagan Water Quality Control Project.

2.2. Physical Works

The AWWTP system is made up of the following six sub-systems.

2.2.1. Headwork's & Primary Treatment

Headwork's & Primary treatment consist of the following: three Archimedes screw pumps, mechanical bar screen, Pista de-gritter, six rectangular primary clarifiers, two flow equalization basins and two sludge fermenters to supplement the phosphorous removal process. The existing digesters from the old activated sludge process are now used for Fermenter sludge digesting and some secondary sludge (RAS) digesting.

Figure 6 – Primary Clarifier Tanks

Table 3 compares raw wastewater test results from 2006 to the previous five years. These parameters are set out by the Ministry of Water, Air & Land Protection for influent monitoring (EMS # 0500232) and are found in Operational Certificate PE 12212, which regulates the Advanced Wastewater Treatment Plant Operational Activities (issued March 20, 1995)

Sanitary Influent Comparison (EMS # 0500232)1 2001 to 2006 Advanced Wastewater Treatment System															
Parameter[2]	PE 12212 Sampling Frequency Requirements	WWTP Sampling Frequency	PE 12212 Parameter Values for 0500232	2006 Influent Quality Data		2005 Influent Quality Data		2004 Influent Quality Data		2003 Influent Quality Data		2002 Influent Quality Data		2001 Influent Quality Data	
Yearly Averaged Flow	N/A	Daily	N/A	13.8	ML/day	13.9	ML/day	14.6	ML/day	13.7	ML/day	13.3	ML/day	13.2	ML/day
Chemical Oxygen Demand (COD)	N/A	Weekly	N/A	315	mg/l	357	mg/l	367	mg/l	369	mg/l	349	mg/l	346	mg/l
Total Suspended Solids (TSS)	N/A	Monthly	N/A	266	mg/l	230	mg/l	208	mg/l	247	mg/l	208	mg/l	223	mg/l
Total Phosphorus as P	Monthly	Monthly	N/A	6.4	mg/l	6.31	mg/l	6.4	mg/l	6.9	mg/l	6.0	mg/l	6.5	mg/l
Ortho Phosphorus	Monthly	Weekly	N/A	2.7	mg/l	2.91	mg/l	2.7	mg/l	2.9	mg/l	2.9	mg/l	3.1	mg/l
Total Nitrogen as N [3]	Monthly	Monthly	N/A	34.9	mg/l	33.5	mg/l	33.3	mg/l	35.5	mg/l	33.8	mg/l	33.5	mg/l
Ammonia Nitrogen	N/A	Weekly	N/A	22.0	mg/l	21.4	mg/l	20.9	mg/l	20.5	mg/l	21.0	mg/l	20.4	mg/l
Nitrate Nitrogen	N/A	Weekly	N/A	0.7	mg/l	0.93	mg/l	1.1	mg/l	1.2	mg/l	1.3	mg/l	1.3	mg/l
Total Kjeldahl Nitrogen	N/A	Monthly	N/A	34.2	mg/l	32.5	mg/l	32.3	mg/l	34.3	mg/l	32.4	mg/l	32.5	mg/l
pH	Monthly	Weekly	N/A	7.6		7.7		7.6		7.6		7.6		7.6	

[1] EMS is the "Environmental Monitoring System" numbers set up by the Ministry of Water, Land & Air Protection for PE 12212

[2] Unless otherwise stated, Parameter values are yearly averages.

[3] Influent Total Nitrogen (mg/L) = Monthly Average TKN + Monthly Average NO_3^- + NO_2^-

Table 3 - Sanitary Influent Comparison (EMS # 0500232), 2001 to 2006, Advanced Wastewater Treatment System

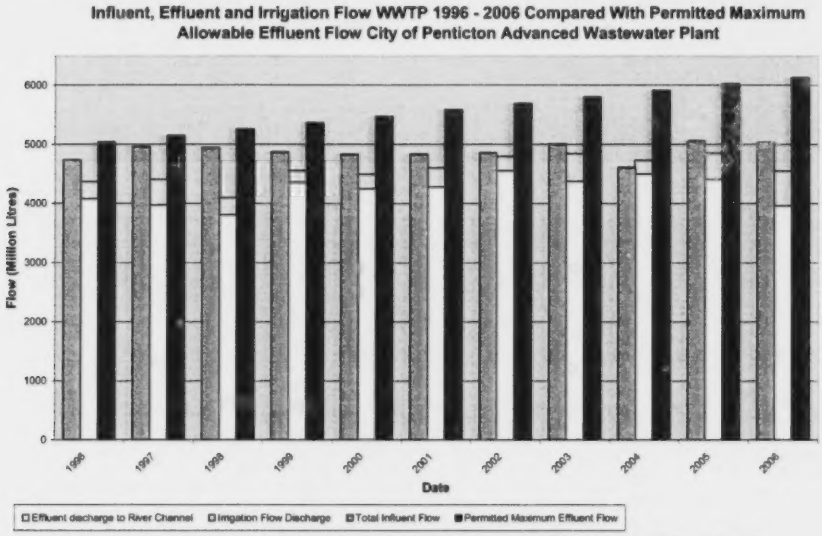


Chart 1 - Total Influent Flow to WWTP 1996 - 2006

Chart 1 compares the total influent flow to the combined irrigation & effluent flows, as well as the permitted maximum effluent flow. The total influent flow is below the permitted maximum effluent flow for every year, and has not increased while the permitted maximum effluent flow has increased every year.

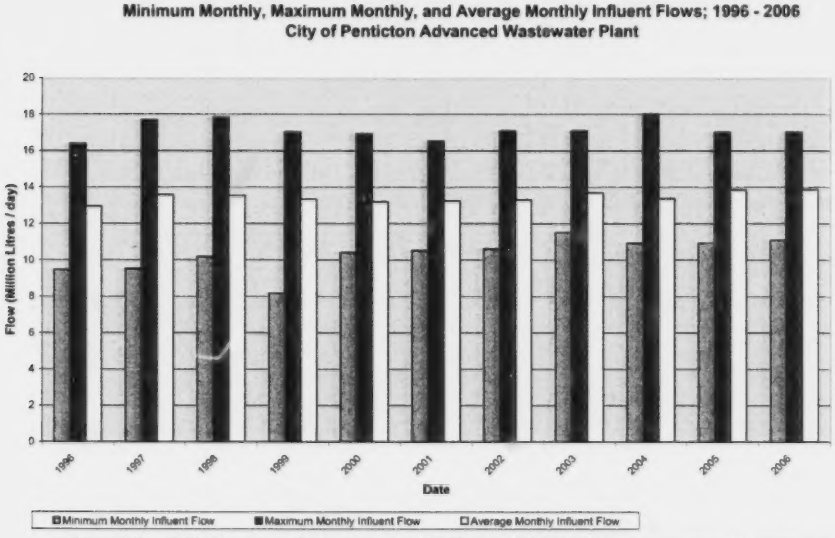


Chart 2 - Minimum, Maximum Influent Monthly Average Flows and Permitted Monthly Maximum Average Effluent Flow to WWTP 1996 - 2006

Chart 2 shows that from 1996 to 2006, the average monthly influent flow held steady, while the difference between the maximum monthly and minimum

monthly flows decreased slightly. This may indicate that the winter to summer population fluctuation each year was less pronounced.

2.2.2 Secondary & Tertiary Treatment

Secondary & Tertiary treatment consists of biological phosphorous and nitrogen removal, based on the modified University of Capetown (UCT) process. Primary clarifier effluent enters the first part of the bioreactor known as the anaerobic stage. Here biomass recycled from the secondary clarifiers is mixed with the primary clarifier effluent and the supernatant from the fermenters. This mixture is known as Mixed Liquor Suspended Solids (MLSS). Phosphorus is released by the MLSS as it uptakes the Volatile Fatty Acids from the fermenter supernate.

The second part of bioreactor, called the anoxic stage, is where recycled MLSS from the third stage of the bioreactor is mixed back in with the MLSS from the anaerobic stage. Typical recycle rates are around 3 times the influent rate. The biomass then strips oxygen from the nitrates in the recycled MLSS to begin consuming organic waste, converting the ammonia to nitrate, and reabsorbing the phosphorus that was released in the anaerobic stage. In the process the nitrogen gas left over after the oxygen has been stripped away from the nitrates escapes from the bioreactor as nitrogen gas.

In the third or aerobic stage, air is bubbled through the MLSS to allow the MLSS to finish consuming the remaining organic material as well as removing almost all of the phosphorus. The majority of the ammonia is also converted to nitrates. At the end of the aerobic stage, three times the influent flow rate is sent back to the anoxic stage. The rest of the flow goes on to the secondary clarifiers. Here MLSS is gravity separated into a thicker biomass called Return Activated sludge (RAS), and secondary effluent. The RAS is returned to the anaerobic stage of the bioreactor, with some of it being sent to the belt filter press for de-watering and then composting at the landfill. The secondary effluent is then sent through sand filters as a final polishing step. The plant has the capability of chemical addition of alum, ferric chloride and sodium acetate to augment the biological process system in times of a plant upset.

Bioreactors.

Figure 7 – Bioreactors

2.2.3 Disinfection Method

Disinfection consists of chlorination using compressed chlorine gas and three chlorine contact tanks followed by de-chlorination with Sulphur Dioxide. This leaves an effluent that is free of pathogenic organisms and is safe for discharge to Okanagan River Channel, or for use as irrigation. The Chlorination system used an average of 69 kg/day of Chlorine gas and 21 kg/day of Sulfur Dioxide gas in 2006

2.2.4. Sludge Conditioning & Composting

Sludge Conditioning & Composting consists of the primary sludge being fermented and then treated by anaerobic digesters. The amount of gas (about 40% methane) produced by the digesters in 2006 was 222,244 cubic meters. Of that amount, 137,255 cubic meters were used for plant building heating and sludge process heating using a boiler system. The 84,989 cubic meters of surplus gas was burned off to the atmosphere using a candle burner. Potentially, this excess gas could be used for expanded heating at the Wastewater plant, or it could be utilized to generate electrical power. Previous studies have shown that utilizing surplus gas was uneconomical, but newer technologies, such as micro turbines and fuel cells, may make surplus methane utilization possible.

Return Activated Sludge (RAS), from the Secondary treatment system, is thickened in a settling tank (2% solids), gravity belt thickened (6%), belt filter press de-watered (13%) and then composted at our landfill compost site. Composting is by static pile aeration method, which produces a Class A biosolids. This conditioning / fertilizing product is recycled to City Parks, landscapers, the public and orchardists for agriculture use. In 2006, the Wastewater plant sent 634 truckloads of sludge to the compost facility, for a total volume of 5977 cubic meters.

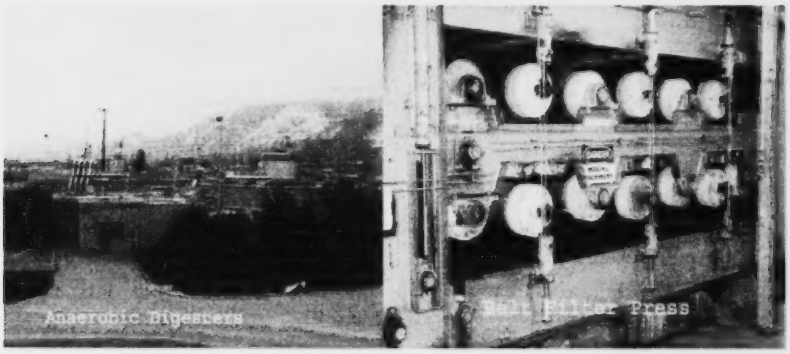


Figure 8 – Anaerobic Digesters **Figure 9 – Belt Filter Press**

2.2.5. Odour Control Systems

Two types of systems control plant odours. Odours are removed from the concrete covered fermenters, the fabric covered primary / equalization tanks by a positive displacement blower discharging into the bioreactor aeration system. The Headwork's area, digester hoppers and degrit building have odours removed by activated carbon canisters systems

2.2.6. Instrumentation & Control Systems

The Supervisory Control and Data Acquisition (SCADA) system consists of Intouch Wonderware software, controlled through Modicon programmable logic controllers. The software was updated in November of 2005, version9.5 and a new PC along with a new Modbus Plus card was installed to run the new software. The plant and lift station alarms are connected by a wireless radio system. The Alarms are monitored after hours by the Fire-hall dispatchers. One operator is required to be on call every day of the year.

Figure 10 – Control Room

2.3. Treated Effluent

Treated effluent from the AWWTP is discharged to the Okanagan River Channel. In addition, during the spring/summer/fall, it is used to irrigate the Penticton Golf course and two City parks. Quality parameters discussed for the effluent apply to both Okanagan River Channel discharge flow and Irrigation flow. Effluent is discharged based on the Ministry of Water, Land & Air Protection's Operational Certificate PE 12212.

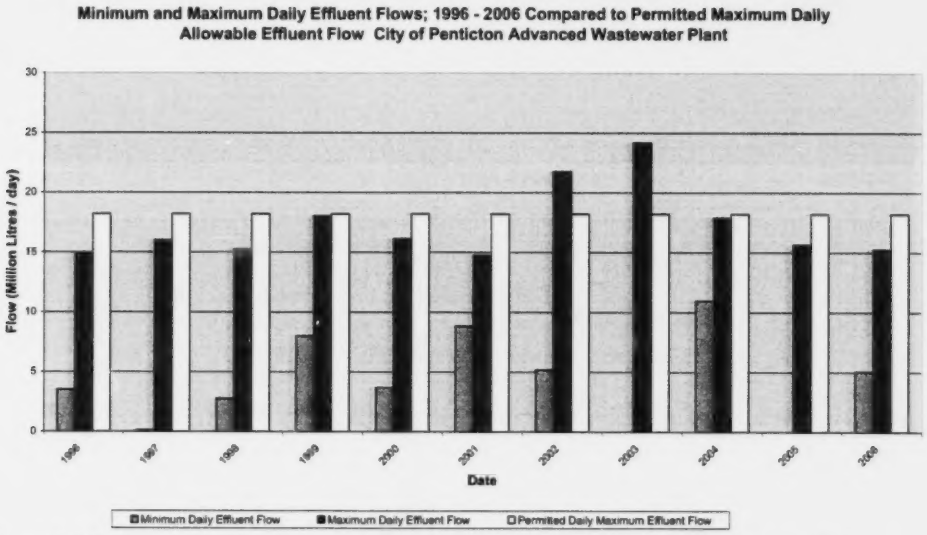


Chart 3-Minimum & Maximum Daily Effluent Flow Compared to Permitted Maximum Daily Effluent Flow Chart 1996 – 2006

Chart 3 is showing the minimum & maximum daily effluent flow to the Okanagan River Channel. The minimum daily values reflect the fact that some operations at the Wastewater plant use effluent flow (i.e. filling some tanks, diverting effluent flow to storage ponds, etc.) The maximum daily flow values seen, particularly 2002 and 2003, reflect problems we were having with the effluent flow meter itself. The influent flow meter is a parshall flume with ultrasonic level control. The effluent meter is a probe inserted into a partially full pipe measuring velocity and depth.

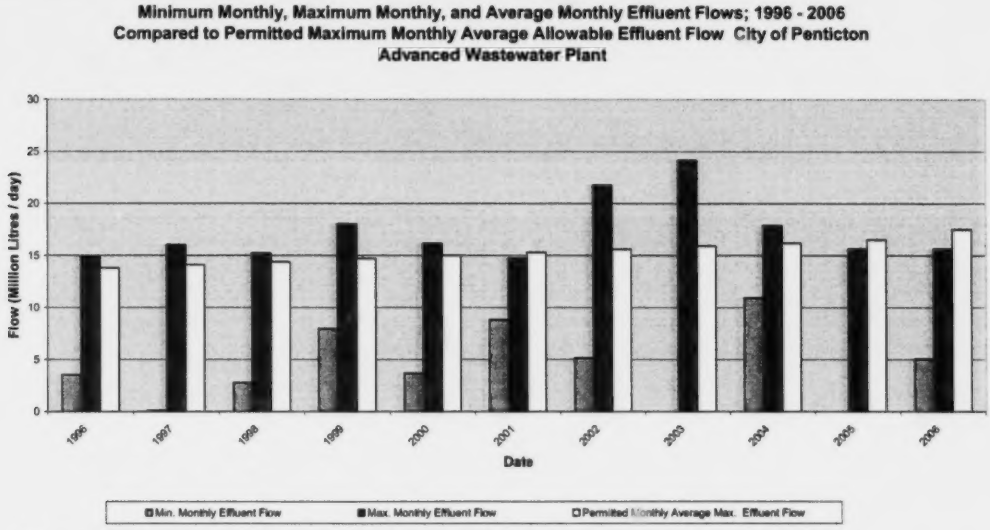


Chart 4 - Minimum Monthly, Maximum Monthly, and Average Monthly Effluent Flows Compared to Permitted Maximum Monthly Average Allowable Effluent Flow; 1996 – 2006

As with Chart 3, Chart 4 minimum and maximum monthly values have been distorted by internal plant process modifications, and instrument error.

Table 4 - Discharge Effluent Comparison (EMS #E105000), 2001 to 2006, Advanced Wastewater Treatment System

Discharge Effluent Comparison (EMS #E105000), 1 2001 to 2006, Advanced Wastewater Treatment System															
Parameter [2]	PE 12212 Sampling Frequency Requirements	WWTP Sampling Frequency	PE 12212 Parameter Values for E105000	2006 Effluent Quality Data		2005 Effluent Quality Data		2004 Effluent Quality Data		2003 Effluent Quality Data		2002 Effluent Quality Data		2001 Effluent Quality Data	
Maximum One-day Flow	Daily	Daily	< 18.2 ML/day	15.3	ML/day (June 17th)	15.7	ML/day (June 17th)	16.6	ML/day (Aug. 23rd)	15.6	ML/day (Aug. 8th)	15.0	ML/day (Aug. 2nd)	15.2	ML/day (July 23rd)
Yearly Averaged Flow	Daily	Daily	< 15.8 ML/day	10.8	ML/Day	12.1	ML/Day	12.0	ML/Day	12.5 [3]	ML/Day	12.6 [3]	ML/Day	12.3 [3]	ML/Day
Maximum Monthly Averaged Flow	Daily	Daily	< 16.8 ML/day	12.8	ML/day (Nov.)	13.7	ML/day (Nov.)	14.2	ML/day (Aug.)	14.3	ML/day (Aug.)	13.7	ML/day (Aug.)	13.7	ML/day (Aug.)
5 day Biochemical Oxygen Demand (BOD	Monthly	Twice Monthly	< 10 mg/l	<5	mg/l	<5	mg/l	<5	mg/l	2.2	mg/l	2.0	mg/l	3.1	mg/l
Chemical Oxygen Demand (COD)	Daily	Daily	N/A	40.9	mg/l	39	mg/l	44	mg/l	38	mg/l	35	mg/l	35	mg/l
Total Suspended Solids (TSS)	Monthly	Weekly	< 10 mg/l	0.45714	mg/l	1.0	mg/l	1.6	mg/l	0.7	mg/l	0.7	mg/l	0.7	mg/l
Total Phosphorus as P Not to exceed (Maximum one day total)	Weekly	Daily	< 2.0 mg/l	0.21	mg/l (Nov 21)	0.47	mg/l (August 5)	**2.3**	**mg/l (April 21&22)**	**2.2**	**mg/l (Oct. 27)**	0.36	mg/l (June 15th)	1.4	mg/l (May 30th)
Total Phosphorus as P 99 percentile [4]	Weekly	Daily	< 1.5 mg/l	0.21	mg/l	0.32	mg/l	**1.7**	**mg/l**	1.32	mg/l	0.13	mg/l	0.92	mg/l
Total Phosphorus as P 90 percentile [5]	Weekly	Daily	< 1.0 mg/l	0.14	mg/l	0.22	mg/l	0.55	mg/l	0.28	mg/l	0.10	mg/l	0.16	mg/l
Total Phosphorus as P Annual Average	Weekly	Daily	< 0.25 mg/l	0.11	mg/l	0.11	mg/l	**0.25**	**mg/l**	0.17	mg/l	0.07	mg/l	0.12	mg/l
Total Phosphorus as P Level to Strive for	Weekly	Daily	<.01 mg/l	0.01											
Ortho Phosphorus	Daily	Daily	N/A	0.05	mg/l	0.04	mg/l	0.17	mg/l	0.13	mg/l	0.03	mg/l	0.07	mg/l
Total Nitrogen as N [6]	Weekly	Daily [7]	< 6.0 mg/l	**6.91**	**mg/l**	**5.2**	**mg/l**	**6.0**	**mg/l**	**6.2**	**mg/l**	**4.7**	**mg/l**	**6.3**	**mg/l**
Ammonia Nitrogen	Weekly	Daily	N/A	0.50	mg/l	0.39	mg/l	0.47	mg/l	0.18	mg/l	0.14	mg/l	0.50	mg/l
Nitrate Nitrogen	Weekly	Daily	N/A	5.42	mg/l	3.9	mg/l	4.5	mg/l	5.2	mg/l	3.8	mg/l	5.0	mg/l
Total Kjeldahl Nitrogen	N/A	Daily	N/A	1.49	mg/l	1.27	mg/l	1.39	mg/l	1.02	mg/l	0.91	mg/l	1.30	mg/l
Total Chlorine residual immediately prior to dechlorination	Continuously	Daily	> 0.5 mg/l	**1.21** [8]	**mg/l**	**0.85** [8]	**mg/l**	**0.8** [8]	**mg/l**	**0.74** [8]	**mg/l**	**0.72** [8]	**mg/l**	N/A	
Total Chlorine residual after dechlorination	Continuously	Daily	< 0.0 mg/l	**0.008**	**mg/l**	**0.00**	**mg/l**	**0.01**	**mg/l**	**0.01** [9]	**mg/l**	**0.01** [9]	**mg/l**	**0.0** [9]	**mg/l**
Total Coliforms	Weekly	Weekly	N/A	4.9	MPN	13	MPN	10.6	MPN	9.5	MPN	76.0	MPN	36.0	MPN
Fecal Coliforms	Weekly [9]	Weekly	< 50 MPN	0.7	MPN	4	MPN	**2.3**	**MPN**	**1.0**	**MPN**	**89.0**	**MPN**	2.4	MPN
pH	Daily	Daily	N/A	7.1		7.2		7.1		7.2		7.3		7.3	

Bold Items Indicate an exceeding of Permit Parameters

[1] EMS is the "Environmental Monitoring System" numbers set up by the Ministry of Water, Land & Air Protection for PE 12212

[2] Unless otherwise stated, Parameter values are yearly averages.

[3] Yearly average flows were calculated by subtracting the irrigation total flow from the influent total flow. This is because of the problems that the effluent flow meter had in 2003.

[4] 99 percentile means one of a set of points on a scale arrived at by dividing a group into parts in order of magnitude. For example, a score equal to or greater than 99 percent of those attained on an examination is said to be in the 99th percentile.

[5] 90 percentile means one of a set of points on a scale arrived at by dividing a group into parts in order of magnitude. For example, a score equal to or greater than 90 percent of those attained on an examination is said to be in the 90th percentile.

[6] Every year, the effluent Total N exceeds 6.0 mg/l on several occasions.

[7] Effluent Total Nitrogen (mg/L) = Average(Daily TKN + Daily NO3- + NO2-)

[8] A chlorine meter is used continuously to dose Chlorine into the Chlorine Contact tank. In 2005 a second chlorine anaylzer was installed prior to de-chlorination. 1999-2003 daily grab samples were taken at the end of the tank, prior to dechlorination.

[9] Increasing to daily if an analysis of over 50 MPN Fecal Coliform is recorded during the summer season.

Table 4 compares results from 2006 to the previous five years. The parameters are set out by the Ministry of Water, Air & Land Protection for effluent monitoring (EMS #E105000) in Operational Certificate PE 12212.

The most noticeable difference is the increase in phosphorus levels for 2003 and 2004. One factor that may have led to this increase was the installation of the fine aeration system in July of 2003. The use of fine air led to the establishment of different operating parameters, and during this learning period the plant was not run as effectively as before. In 2005 the plant returned to its historic nutrient removal levels.

Another factor that began at this time was a struvite recovery pilot project that was set up at the WWTP by the University of British Columbia and Stantec Inc. and ran from June to December 2003. This Struvite recovery system removes phosphorus, ammonia, and manganese from the secondary anaerobic digester to create a crystal fertilizer (struvite). Extensive piping changes allowed thickened RAS sludge to be pumped over to the digester, thus saving money on sludge hauling to the compost site. The supernate from the secondary anaerobic digester was sent through the struvite extraction process, producing a high quality fertilizer. Not all of the digester supernate could be treated, resulting in higher than normal levels of phosphorus recycled back to the headwork's of the plant.

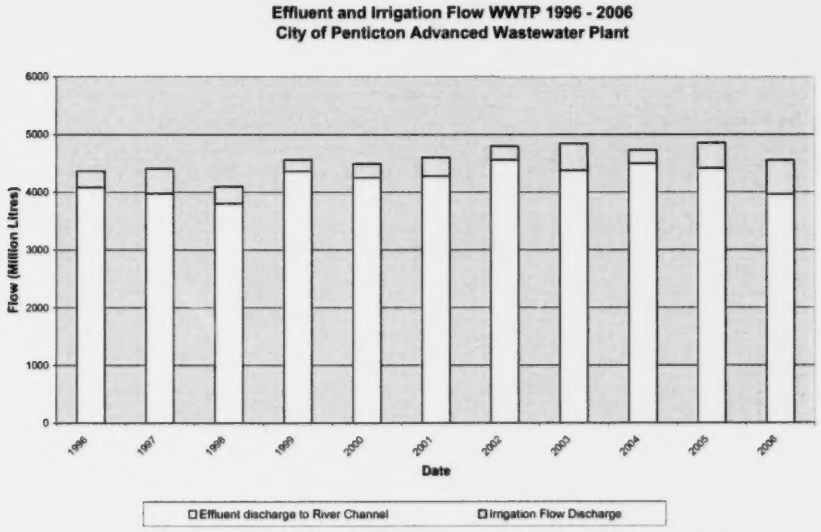


Chart 5 – Stacking Bar Chart of Effluent Flow to the Okanagan River Channel and Irrigation Flow 1996 to 2006

Chart 5 shows the combined flow levels of the Okanagan River Channel discharge, and the Irrigation flow levels. This shows the percentage of irrigation flow compared to the total effluent flow.

2.3.1. Okanagan River Diffuser Outfall

Treated effluent is discharged through an under-water diffuser system into the Okanagan river channel adjacent to the plant site. In 2006 the treatment plant sent 3,998 ML total flow to Okanagan River Channel, or 10.8 ML/day.

Figure 11 – Outfall Diffuser Location

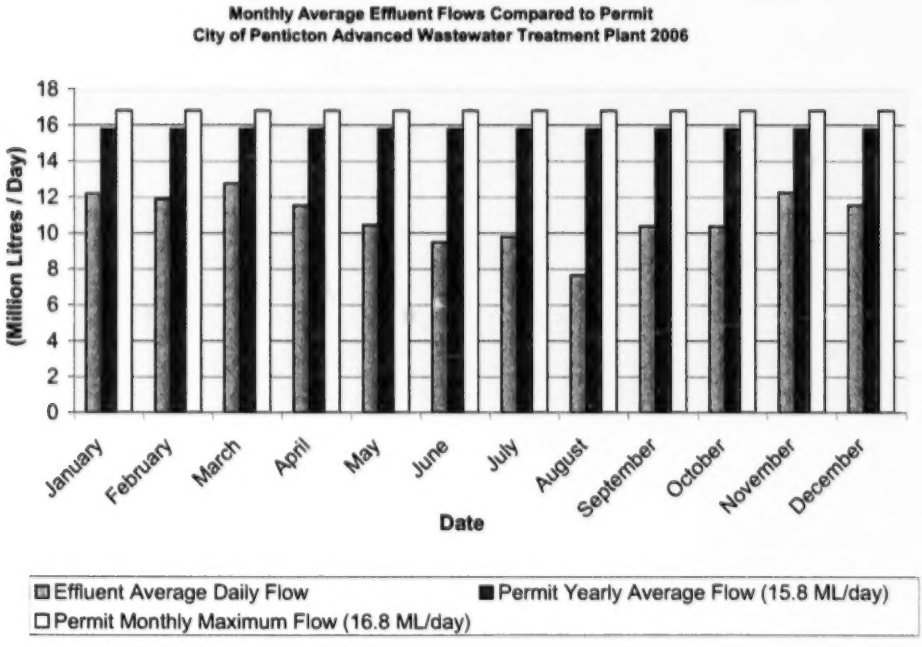


Chart 6- Monthly Average Effluent Flows Compared to Permit

Chart 6 shows that the average monthly flow is well within permit level of 15.8 ML/day at all times of the year.

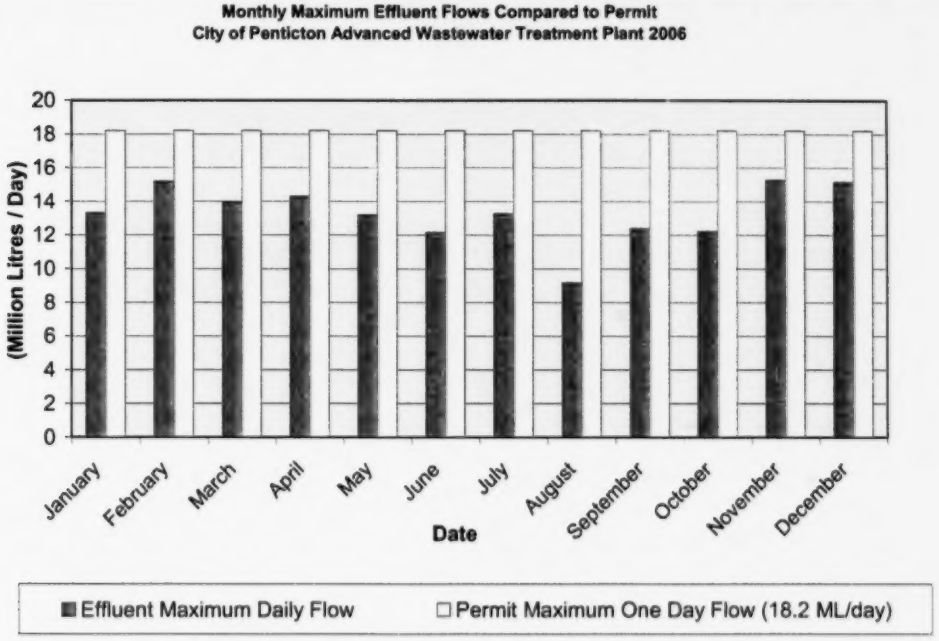


Chart 7 – Maximum Daily Effluent Flow Compared to Permitted Maximum Daily Effluent Flow

Chart 7 shows that the maximum daily flow for each month is well under the permitted maximum allowable flow of 18.2 ML/day. The highest daily effluent flow (15.3 ML/day) occurred on November 18th.

2.3.2. Effluent Irrigation System

Irrigating with the effluent is done by three 60 hp 8 stage vertical turbine pumps. Maximum pumping capacity is approximately 100 l/sec. In 2006 590 ML went out for Irrigation, accounting for 11.6 % of the total plant flow. The city currently irrigates the Penticton Golf and Country Club (29.1 hectares); King's Park (5.1 hectares) and Queens Park (4.5 hectares) for a total of 38.7 hectares (see Appendix A Map A.3.).

Figure 12 – Kings Park

Figure 13 – Queens Park

Effluent Irrigation Monitoring (EMS# E221689) [1] from Advanced Wastewater Treatment System						
Parameter [2]	PE 12212 Sampling Frequency Requirements	Irrigation Sampling Frequency	PE 12212 Parameter Values for E221689	2006 Effluent Irrigation Quality Data		# of Tests
Total Yearly Flow	Continuously	Continuously	N/A	590.8	ML	365
Average Daily Flow [3]	Continuously	Continuously	N/A	1.61	ML/day	365
Total Chlorine residual	Continuously	Daily	> 1.0 mg/l	1.96	mg/l	184
Total Coliforms	Weekly	Weekly	N/A	583.1	MPN	23
Fecal Coliforms	Weekly	Weekly	< 2.2 MPN	0.1	MPN	23
pH	Daily	Daily	N/A	7.1		362
Bold Items Indicate an exceeding of Permit Parameters						
[1] EMS is the "Environmental Monitoring System" numbers set up by the Ministry of Water, Land & Air protection for PE						
[2] Unless otherwise stated, Parameter values are yearly averages.						
[3] Flow is averaged over whole year, not just irrigation period.						
For all other parameters about effluent irrigation, see "Discharge Effluent Quality from Advanced Wastewater Treatment System" Data table						

Table 5 – Effluent Irrigation Monitoring (EMS #E221689), Advanced Wastewater Treatment System

Table 6 compares results from 2006 to the previous five years, following the parameters set out by the Ministry of Water, Air & Land Protection for irrigation effluent monitoring (EMS# E221689). These parameters are found in Operational Certificate PE 12212, which regulates the AWWTP operational activities (issued March 20, 1995).

Effluent Irrigation Comparison (EMS# E221689), I 2001 to 2006 Advanced Wastewater Treatment System																					
Parameter [2]	PE 12212 Sampling Frequency Requirements	Irrigation Sampling Frequency	PE 12212 Parameter Values for E221689	2006 Effluent Irrigation Quality Data		2005 Effluent Irrigation Quality Data		2004 Effluent Irrigation Quality Data		2003 Effluent Irrigation Quality Data		2002 Effluent Irrigation Quality Data		2001 Effluent Irrigation Quality Data	
Total Yearly Flow	Continuously	Continuously	N/A	590.8	ML	440	ML	425.0	ML	419.98	ML	238.39	ML	323.11	ML
Average Daily Flow [3]	Continuously	Continuously	N/A	1.62	ML/day	1.20	ML/day	1.20	ML/day	1.15	ML/day	0.65	ML/day	0.89	ML/day
Total Chlorine residual	Continuously	Daily	> 1.0 mg/l	1.96	mg/l	1.60	mg/l	1.10	mg/l	**0.98**	**mg/l**	**0.83**	**mg/l**	**0.89**	**mg/l**
Total Coliforms	Weekly	Weekly	N/A	583.1	MPN	13.2	MPN	10.8	MPN	8.2	MPN	28.7	MPN	36.2	MPN
Fecal Coliforms	Weekly	Weekly	< 2.2 MPN	0.1	MPN	0.7	MPN	0.5	MPN	**1.0**	**MPN**	**2.9**	**MPN**	**3.3**	**MPN**
pH	Daily	Daily	N/A	7.1		7.2		7.1		7.2		7.3		7.3	

Bold Items Indicate an exceeding of Permit Parameters

[1] EMS is the "Environmental Monitoring System" numbers set up by the Ministry of Water, Land & Air Protection for PE 12212

[2] Unless otherwise stated, Parameter values are yearly averages.

[3] Flow is averaged over whole year, not just irrigation period.

For all other parameters about effluent irrigation, see "Discharge Effluent Quality from Advanced Wastewater Treatment System" Data table

Table 6 – Effluent Irrigation Comparison (EMS #E221689), 2001- 2006, Advanced Wastewater Treatment System

Table 6 shows that 2006 had the most irrigation flow compared to the previous four years.

2.3.3. Effluent Storage Pond

In case of a plant upset, treated or untreated sewage can be stored in two emergency on-site 36 ML storage basins. Stored sewage can then be returned by gravity to the Headwork's of the plant for treatment.

2.3.4 Okanagan River Channel

The Okanagan River Channel is eight kilometers long and connects Okanagan Lake to Skaha Lake. The Advanced Wastewater Treatment Plant effluent is discharged into Okanagan River Channel approximately 400 meters north of Green Mountain Rd. Effluent is diffused into the channel through a 600 mm Outfall pipe, which splits into 6 200 mm diffuser heads under the Okanagan River channel. Signs posted on both banks of the channel mark the pipe location.

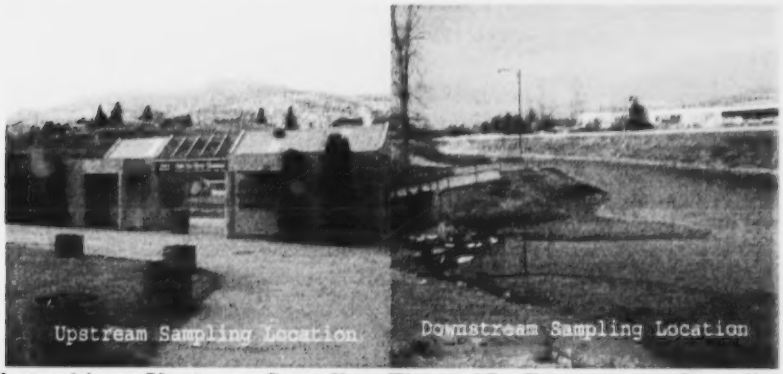


Figure 14 – Upstream Sampling Location

Figure 15 – Downstream Sampling Location

Upstream sampling occurs at the Coyote Cruises loading site on Riverside Rd. (EMS# 0500050) as well as 200 meters upstream of the Outfall. The reason we sample 200 meters above the Outfall is that the upstream permit location is 2 km from the Outfall and many factors could affect the permit levels. Should any downstream values exceed the permit, we can cross check these values against the Coyote Cruise location.

The Downstream Monitoring location (EMS# 0500050) is located at the river off landing upstream of Shingle Creek.

Okanagan River Channel Upstream Surface Water Impact monitoring (EMS# 0500050) [1]					
Parameter [2]	PE 12212 Sampling Frequency Requirements	Upstream Sampling Frequency	PE 12212 Parameter Values for 0500050	2006 Upstream Quality Data Average	# of Tests
Total Suspended Solids (TSS)	Monthly	Monthly	N/A	3.0 mg/l	12
Total Phosphorus as P	Monthly	Monthly	N/A	0.02 mg/l	12
Ortho Phosphorus	Monthly	Monthly	N/A	0.004 mg/l	12
Total Nitrogen as N	Monthly	Monthly	N/A	0.25 mg/l	12
Ammonia Nitrogen	Monthly	Monthly	N/A	0.02 mg/l	12
Nitrate Nitrogen	Monthly	Monthly	N/A	0.02 mg/l	12
Total Kjeldahl Nitrogen	N/A	Monthly	N/A	0.23 mg/l	12
Total Coliforms	Monthly	Monthly	N/A	131.9 MPN	12
Fecal Coliforms	Monthly	Monthly	N/A	56.8 MPN	12
pH	Monthly	Monthly	N/A	8.5	12
[1] EMS is the "Environmental Monitoring System" numbers set up by the Ministry of Water, Land & Air Protection for					
[2] Unless otherwise stated, Parameter values are yearly averages.					

Table 7 - Okanagan River Channel Upstream Surface Water Impact monitoring (EMS #0500050)

Table 7's results are typical of water bodies in the Okanagan. Coliform counts come from a variety of non-point sources, like wildlife, storm water runoff, etc. Samples are collected once a month.

Okanagan River Channel Downstream Surface Water Impact monitoring (EMS# E221464) [1]					
Parameter [2]	PE 12212 Sampling Frequency Requirements	Downstream Sampling Frequency	PE 12212 Parameter Values for E221464	2006 Downstream Quality Data (Average)	# of Tests
Total Suspended Solids (TSS)	Monthly	Monthly	N/A	3.7 m_g	12
Total Phosphorus as P	Monthly	Monthly	N/A	0.02 mg/l	12
Ortho Phosphorus	Monthly	Monthly	N/A	0.01 mg/l	12
Total Nitrogen as N	Monthly	Monthly	N/A	0.27 mg/l	12
Ammonia Nitrogen	Monthly	Monthly	N/A	0.02 mg/l	12
Nitrate Nitrogen	Monthly	Monthly	N/A	0.02 mg/l	12
Total Kjeldahl Nitrogen	N/A	Monthly	N/A	0.25 mg/l	12
Total Coliforms	Monthly	Monthly	N/A	116.1 MPN	12
Fecal Coliforms	Monthly	Monthly	N/A	43.5 MPN	12
pH	Monthly	Monthly	N/A	8.5	12
[1] EMS is the "Environmental Monitoring System" numbers set up by the Ministry of Water, Land & Air Protection for PE 12212					
[2] Unless otherwise stated, Parameter values are yearly averages.					

Table 8 - Okanagan River Channel Downstream Surface Water Impact monitoring (EMS #E221464)

The only parameter higher in the downstream testing results compared to the upstream testing results is the Total Suspended Solids (TSS). For our October sample we had high numbers at all three sampling points. There are a variety of reasons why this would be so. One might be storm water runoff into Okanagan River Channel.

Tables 10 and 11 compare results from 2006 to the previous five years. The parameters are set out by the Ministry of Water, Air & Land Protection for the Okanagan River Channel. These parameters are found in Operational Certificate PE 12212, which regulates the AWWTP operational activities (issued March 20, 1995).

Except for the TSS data mentioned above, every other parameter that was measured shows that the downstream samples were equal to or superior to the upstream samples. This shows that the Wastewater Treatment plants effluent has a negligible effect of the Okanagan River Channel water quality.

Table 9 – Okanagan River Channel Upstream Surface Water Comparison (EMS #0500050), 2000 - 2006

Okanagan River Channel Upstream Surface Water Comparison (EMS# 0500050), 1 2000 to 2006										
Parameter [2]	PE 12212 Sampling Frequency Requirements	Upstream Sampling Frequency	PE 12212 Parameter Values for 0500050	2006 Upstream Quality Data	2005 Upstream Quality Data	2004 Upstream Quality Data	2003 Upstream Quality Data	2002 Upstream Quality Data	2001 Upstream Quality Data	2000 Upstream Quality Data
Total Suspended Solids (TSS)	Monthly	Monthly	N/A	3 mg/l	0.8 mg/l	0.8 mg/l	0.8 mg/l	0.6 mg/l	0.6 mg/l	0.6 mg/l
Total Phosphorus as P	Monthly	Monthly	N/A	0.02 mg/l	0.04 mg/l	0.03 mg/l	0.03 mg/l	0.02 mg/l	0.03 mg/l	0.03 mg/l
Ortho Phosphorus	Monthly	Monthly	N/A	<.02 mg/l	0.02 mg/l	0.02 mg/l	0.03 mg/l	0.02 mg/l	0.02 mg/l	0.02 mg/l
Total Nitrogen as N	Monthly	Monthly	N/A	0.25 mg/l	0.35 mg/l	0.36 mg/l	0.37 mg/l	0.32 mg/l	0.38 mg/l	0.51 mg/l
Ammonia Nitrogen	Monthly	Monthly	N/A	0.02 mg/l	0.05 mg/l	0.06 mg/l	0.04 mg/l	0.03 mg/l	0.03 mg/l	0.03 mg/l
Nitrate Nitrogen	Monthly	Monthly	N/A	0.02 mg/l	0.11 mg/l	0.11 mg/l	0.11 mg/l	0.10 mg/l	0.11 mg/l	0.20 mg/l
Total Kjeldahl Nitrogen	Monthly	Monthly	N/A	0.23 mg/l	0.24 mg/l	0.25 mg/l	0.27 mg/l	0.22 mg/l	0.27 mg/l	0.30 mg/l
Total Coliforms	Monthly	Monthly	N/A	131.9 MPN	34.5 MPN	58.2 MPN	26.0 MPN	160.1 MPN	378.0 MPN	92.9 MPN
Fecal Coliforms	Monthly	Monthly	N/A	56.8 MPN	11.9 MPN	20.2 MPN	15.3 MPN	18.2 MPN	51.5 MPN	14.8 MPN
pH	Monthly	Monthly	N/A	8.5	8.2	8.2	7.9	8.2	8.1	8.0

[1] EMS is the "Environmental Monitoring System" numbers set up by the Ministry of Water, Land & Air Protection for PE 12212

[2] Unless otherwise stated, Parameter values are yearly averages.

Okanagan River Channel Downstream Surface Water comparison (EMS# E221464),1 2000 to 2006												
Parameter [2]	PE 12212 Sampling Frequency Requirements	Upstream Sampling Frequency	PE 12212 Parameter Values for E221464	2006 Downstream Quality Data	2005 Downstream Quality Data	2004 Downstream Quality Data	2003 Downstream Quality Data	2002 Downstream Quality Data	2001 Downstream Quality Data	2000 Downstream Quality Data
Total Suspended Solids (TSS)	Monthly	Monthly	N/A	3.7mg/l	1.1mg/l	1.0mg/l	1.0mg/l	0.6mg/l	0.8mg/l	0.8mg/l
Total Phosphorus as P	Monthly	Monthly	N/A	0.02mg/l	0.03mg/l	0.03mg/l	0.03mg/l	0.02mg/l	0.02mg/l	0.04mg/l
Ortho Phosphorus	Monthly	Monthly	N/A	0.01mg/l	0.02mg/l	0.02mg/l	0.02mg/l	0.02mg/l	0.02mg/l	0.02mg/l
Total Nitrogen as N	Monthly	Monthly	N/A	0.05mg/l	0.36mg/l	0.33mg/l	0.36mg/l	0.32mg/l	0.45mg/l	0.53mg/l
Ammonia Nitrogen	Monthly	Monthly	N/A	0.02mg/l	0.05mg/l	0.07mg/l	0.04mg/l	0.03mg/l	0.04mg/l	0.03mg/l
Nitrate Nitrogen	Monthly	Monthly	N/A	0.02mg/l	0.12mg/l	0.13mg/l	0.15mg/l	0.10mg/l	0.16mg/l	0.21mg/l
Total Kjeldahl Nitrogen	Monthly	Monthly	N/A	0.25mg/l	0.23mg/l	0.22mg/l	0.22mg/l	0.22mg/l	0.30mg/l	0.29mg/l
Total Coliforms	Monthly	Monthly	N/A	116.1MPN	120.6MPN	118.3MPN	113.6MPN	160.1MPN	921.5MPN	164.7MPN
Fecal Coliforms	Monthly	Monthly	N/A	43.5MPN	18.0MPN	22MPN	27.4MPN	18.2MPN	12.0MPN	14.8MPN
pH	Monthly	Monthly	N/A	8.5	8.2		7.9	8.2	8.0	8.0

EMS is the "Environmental Monitoring System" numbers set up by the Ministry of Water, Land & Air Protection for PE 12212

Unless otherwise stated, Parameter values are yearly averages.

Table 10 – Okanagan River Channel Downstream Surface Water Comparison (EMS #E221464), 2000 - 2006

2.4 Advanced Wastewater Treatment Plant Completed Projects, Staff Innovations and Planned Projects for 2006

2.4.1. Completed Projects

The following repairs and replacement took place in 2006 for the Advanced Wastewater Treatment Plant:

2.4.1.1. Lee Ave pump replacement ($24,962)
2.4.1.2. RAS pump repairs ($7,200)
2.4.1.3. Screw pump #2 gear box repairs ($6,744)
2.4.1.4. HVAC replacement Control Bldg. ($5,647)
2.4.1.5. RAS scum pump repairs ($1,500)
2.4.1.6. Lakeside South pump # 1 repairs ($1,396)

Cost's obtained from maintenance departments Managed Maintenance Software.

2.4.2. Staff Innovations

Several staff innovations were carried out at the Wastewater Treatment plant in 2006. These include;

2.4.2.1. With the vacancy of the Lab tech position in early 2006, the staff at the WWTP reviewed the position and decided to incorporate the lab routine in with the Operator duties. With the purchase of a new spectrophotometer that replaces the old wet chemistry methods it was possible to simplify the lab routine.

2.4.2.2. Addition of stairs that replace ladder access to the Fermenter roof's was completed in 2006. The staff used some old stairs that were not in use anymore and installed new handrails. This has been a great safety improvement due to the increased activity on the roof's.

Figure 16 - Fermenter Stair Installation

2.4.2.3. Wastewater Treatment Plant Electrician involved with the aeration automation resulted in cost savings to the City, as specs and programming was kept in house.

2.4.2.4. The Operations staff designed and constructed a temporary Ferric Chloride dosing facility at Lakeside South Lift station in the spring of 2006. This resulted in a summer of minimal odours for the residents of Lakeside Rd. The permanent building should be up and running for the summer of 2007.

2.4.2.5. BCWWA conference in Whistler with two staff members competing in Top Op's challenge taking home first place.

2.4.2.6. Confined space entry and rescue training by STC Consulting (Kelly Kae). Two day course attended by all WWTP staff.

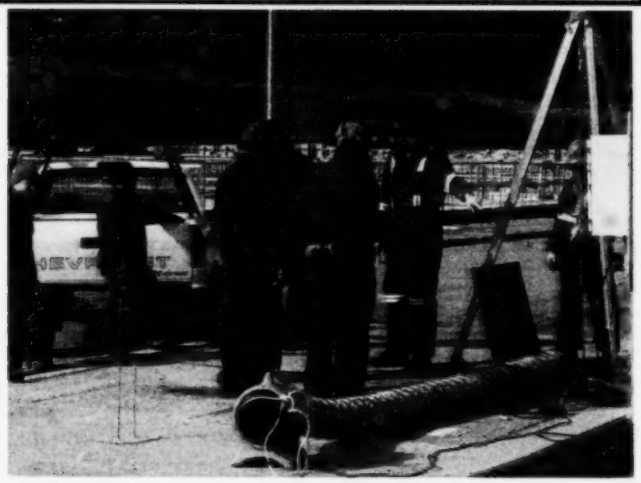


Figure 17 – Confine Space Training

2.4.2.7. Implementation of a fall protection plan for the buildings around the WWTP. Many options were looked at and the staff chose railings installed in high hazard areas. With the use of bolt together railings the work was kept in house and resulted in a savings over welded railing systems.

2.4.2.8 During the preliminary design phase of the Septage receiving facility, an idea was brought forward from staff that resulted in the elimination of a pumping station with a cost savings of approximately $200,000.

2.4.3. Planned Projects for 2007

The Wastewater plant has $90,000.00 (Capital) budgeted this year for equipment repair/replacement. The following projects are scheduled:

		Est. Cost
2.4.3.1.	Replace Methane gas boiler	$28,000
2.4.3.2.	Purchase spare equalization pump	$7,000
2.4.3.3.	Replace one set of gas detectors	$5,000
2.4.3.4.	Primary tank chain replacement	$15,000
2.4 3.5.	Replace chlorine contact gate	$4,000
2.4.3.6.	Replace one SCBA	$5,000
2.4.3.7.	Replace two VFD's	$6,000
2.4.3.8.	Replace effluent flow meter	$12,000
2.4.3.9.	Replace influent channel cover	$3,000
2.4.3.10	Digester roof repairs	$5,000

Appendix A

Maps of Lift Stations and Irrigation Areas; Aerial Photo of Advanced Wastewater Treatment Plant

Appendix A.1.

Map of Lift Stations

CITY OF PENTICTON LIFT STATIONS

SCALE 1:25000

Appendix A.2.

Aerial Photo of Advanced Wastewater Treatment Plant

CITY OF PENTICTON SEWAGE TREATMENT PLANT

SCALE 1:1500

Appendix A.3.

Map of Irrigation Areas

CITY OF PENTICTON A 3 MAP OF IRRIGATION AREAS

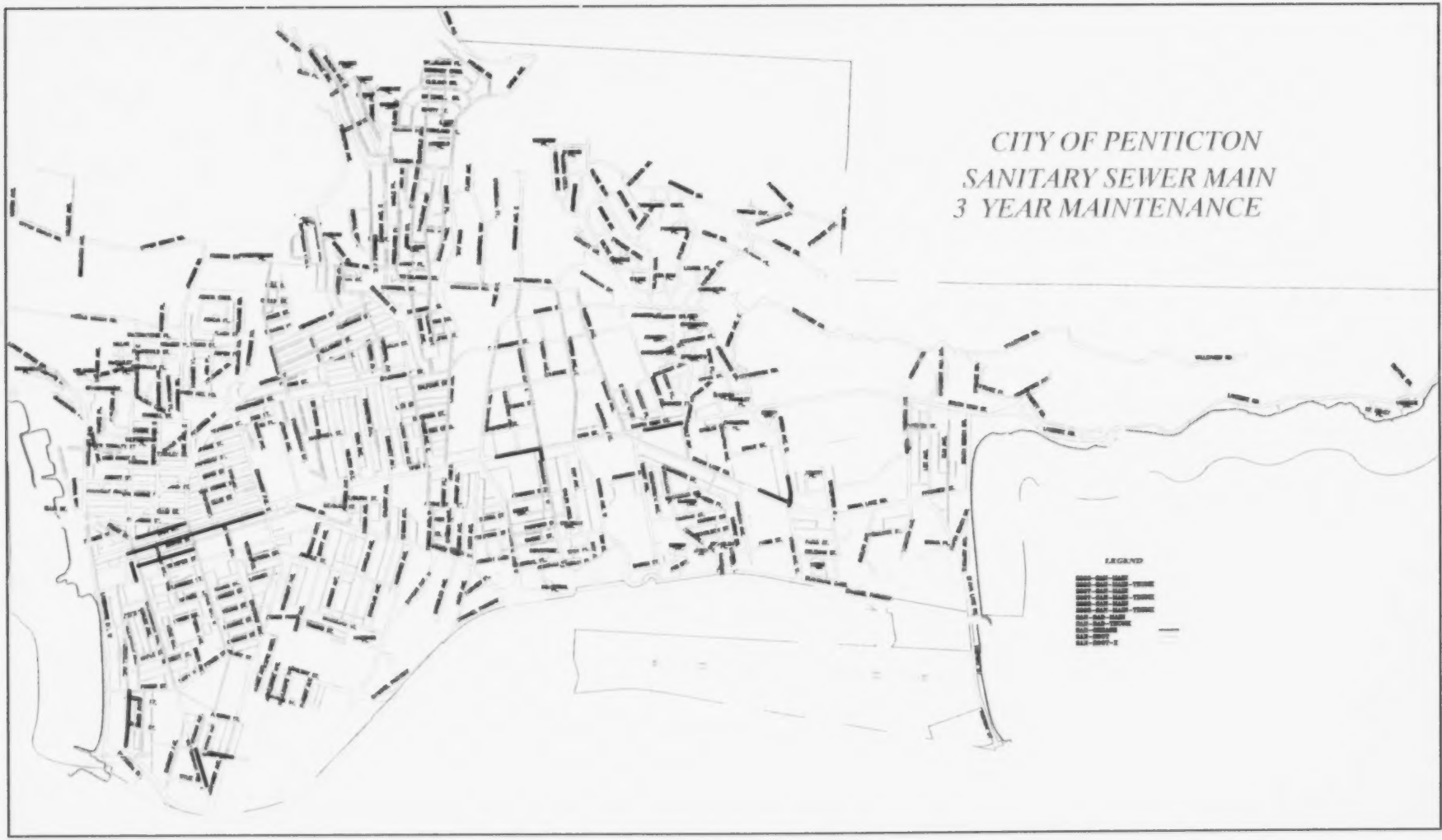
SCALE 1:25000

CITY OF PENTICTON — AS MAP OF IRRIGATION AREAS

Appendix A.4.

Sanitary Sewer Maintenance 2006

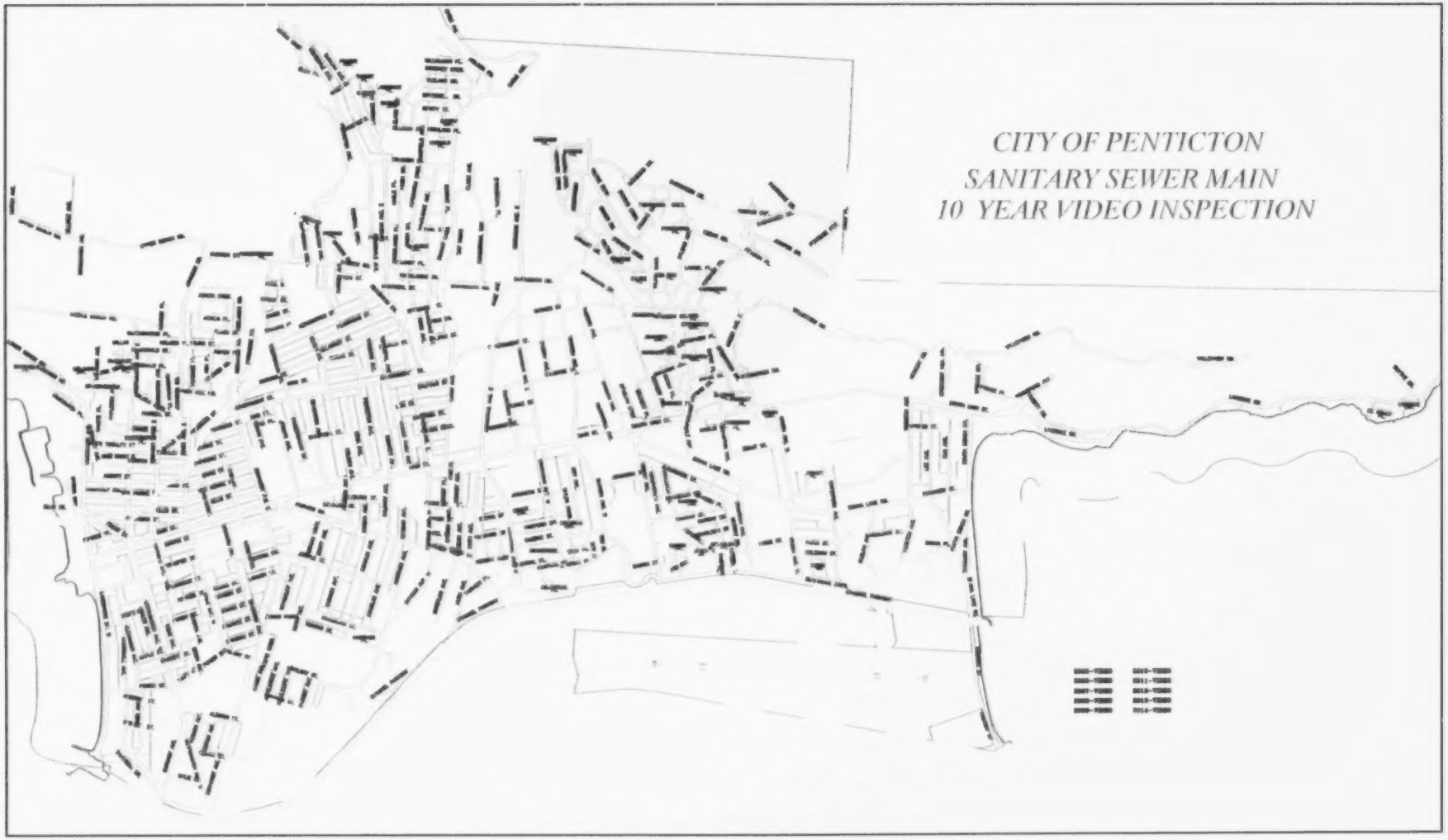
SANITARY SEWER MAINTENANCE 2006



Appendix A.5.

Sanitary Video Inspection 2006

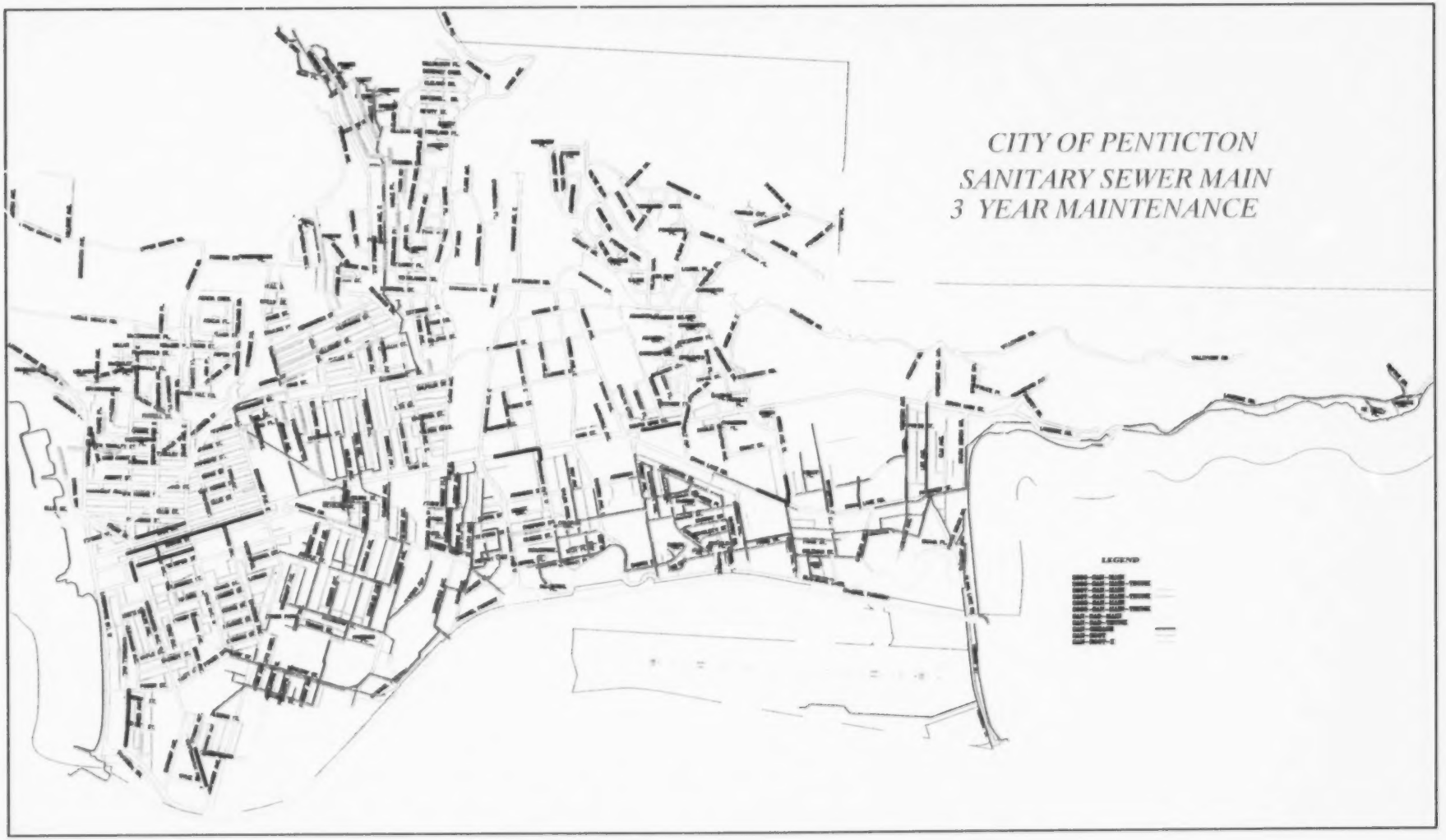
SANITARY VIDEO INSPECTION 2006



Appendix A.6.

Sanitary Sewer Maintenance 2007

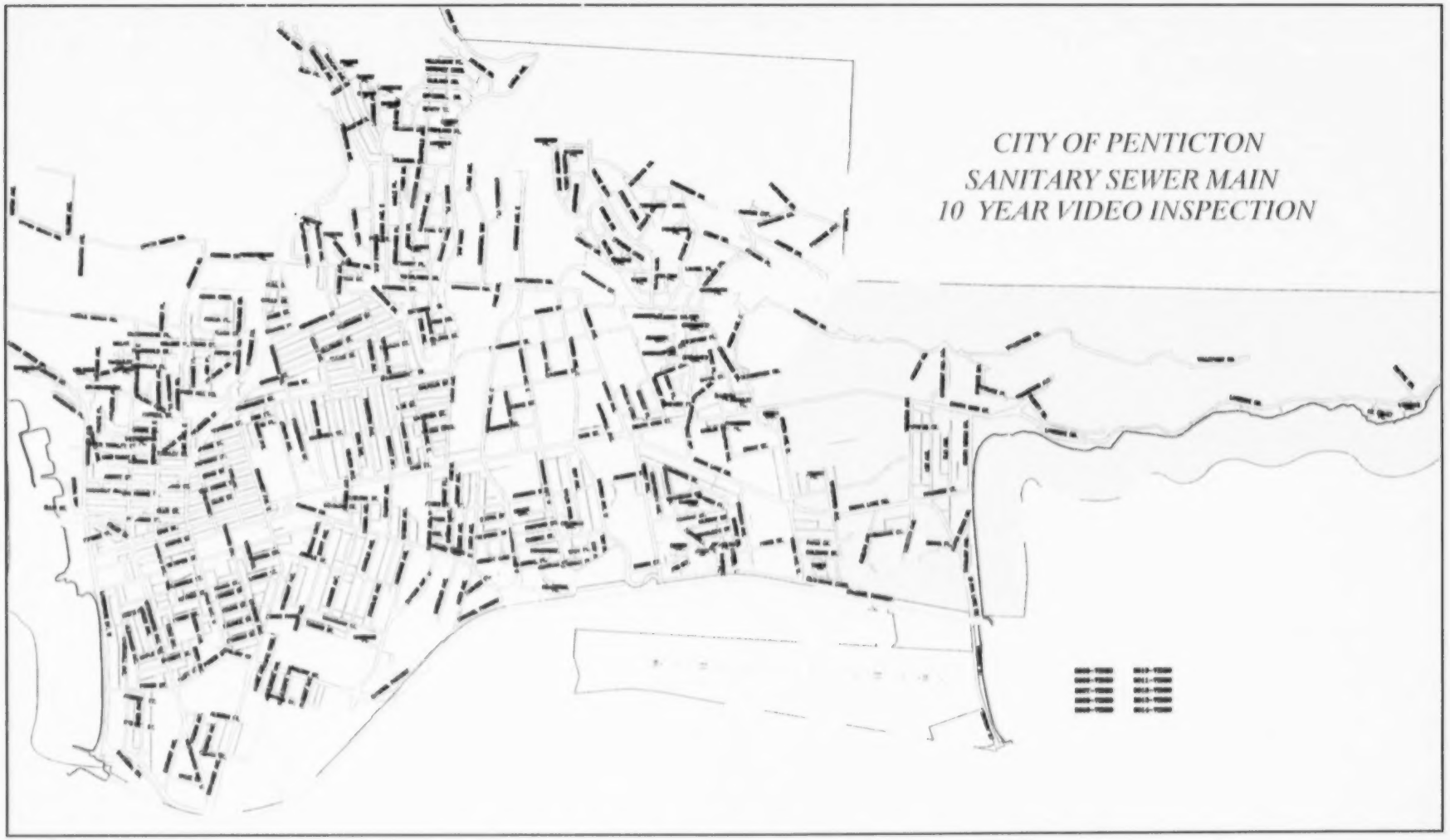
SANITARY SEWER MAINTENANCE 2007



Appendix A.7.

Sanitary Video Inspection 2007

SANITARY VIDEO INSPECTION 2007



Appendix B

Treatment System Monitoring Results

Appendix B.1.

Influent, Effluent, And Irrigation Flow Data

Monthly Average, Maximum, Minimum and Total Flows; Influent, Effluent and Irrigation

City of Penticton Advanced Wastewater Treatment Plant 2006

Date	Average Daily Flow (ML/Day)					Maximum Daily Flow (ML/Day)				Minimum Daily Flow (ML/Day)			Total Monthly Flow (ML/Month)			
	Influent	Effluent [1]	Irrigation	Permit Average Flow (Yearly Average) [2]	Permit Monthly Maximum Flow (Monthly Average) [2]	Influent	Effluent	Irrigation	Permit Maximum Flow (Maximum One Day Flow)	Influent	Effluent	Irrigation	Influent	Effluent	Irrigation	Permit Allowable Flow
January	13.02	12.20	0.00	15.8	16.8	13.84	13.31	0.00	18.2	11.63	11.40	0.00	403.56	378.08	0.00	520.80
February	12.46	11.89	0.00	15.8	16.8	13.87	15.17	0.00	18.2	11.74	9.19	0.00	348.91	333.02	0.00	470.40
March	12.95	12.75	0.00	15.8	16.8	13.71	13.94	0.00	18.2	11.98	11.61	0.00	401.37	395.40	0.00	520.80
April	13.65	11.54	2.03	15.8	16.8	15.74	14.28	3.28	18.2	12.40	10.20	0.00	409.61	346.23	61.03	504.00
May	14.71	10.46	2.84	15.8	16.8	16.66	13.18	3.72	18.2	13.71	6.76	1.19	456.16	324.18	88.17	520.80
June	14.83	9.48	2.88	15.8	16.8	16.21	12.14	4.25	18.2	13.88	7.06	1.46	444.82	284.48	86.50	504.00
July	15.40	9.79	3.49	15.8	16.8	17.03	13.25	4.75	18.2	13.94	7.26	0.25	477.37	303.61	108.23	520.80
August	15.33	7.63	3.36	15.8	16.8	16.28	9.14	4.41	18.2	14.52	5.05	2.00	475.08	236.57	104.14	520.80
September	14.18	10.38	2.83	15.8	16.8	15.84	12.38	3.80	18.2	13.25	6.09	1.94	425.47	311.26	84.97	504.00
October	13.47	10.36	1.86	15.8	16.8	14.56	12.21	3.04	18.2	12.41	7.87	0.00	417.51	321.14	57.79	520.80
November	12.68	12.26	0.00	15.8	16.8	13.88	15.26	0.00	18.2	11.08	10.74	0.00	380.43	367.91	0.00	504.00
December	12.71	11.55	0.00	15.8	16.8	14.21	15.15	0.00	18.2	11.14	10.49	0.00	393.93	357.95	0.00	520.80
Annual Average [2]	**13.79**	**10.85**	**1.61**										**419.52**	**329.98**	**49.23**	
Annual Total													**5061.2**	**3959.8**	**590.82**	**6132.00**

[1] Permit Values Originate From the BC Ministry of Water, Land and Air Protection's Operational Certificate for the Penticton Advanced Wastewater Treatment Plant (PE 12212) Section 1.3.1

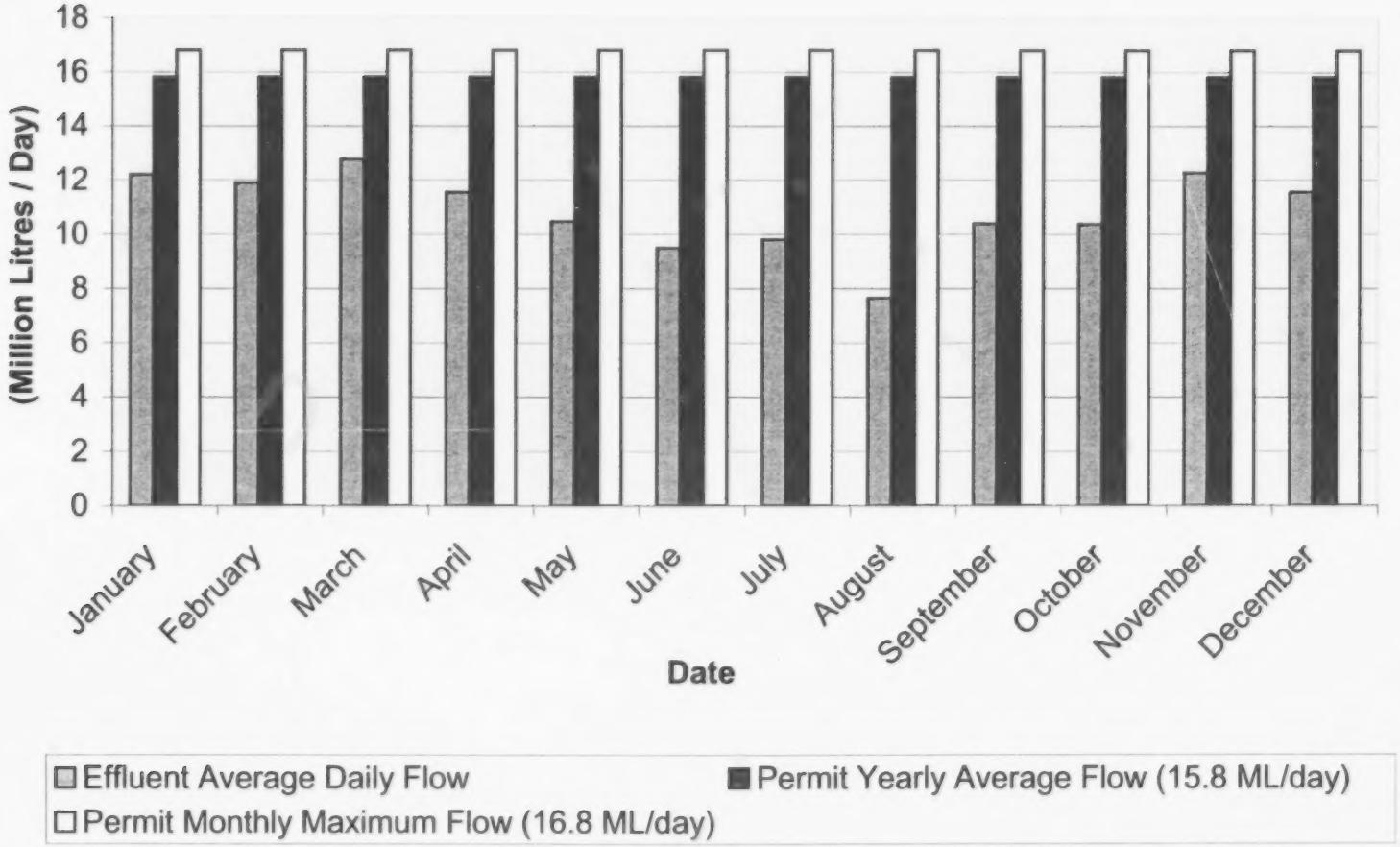
[2] Averages involving the Irrigation flow are calculated over the whole year, not just the summer season

Data for this table was obtained from the Excel Workbook "MOE 2006.xls", spreadsheet "Process Information".

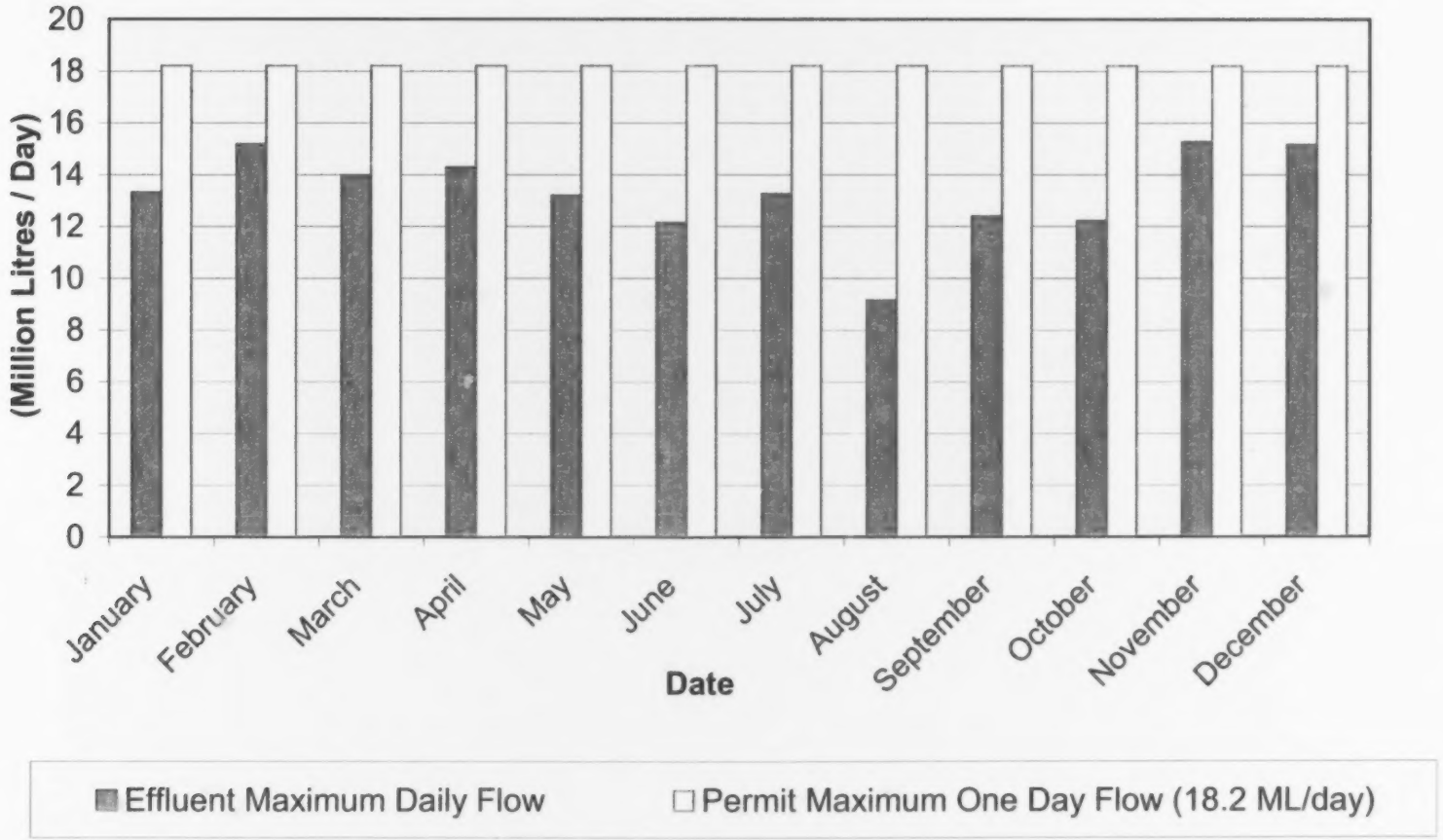
2006 Population Estimated = 34,669 from 1996-2006 BC Stats data (http://www.bcstats.gov.bc.ca/data/pop/pop/mun/Mun9606a.htm)

Average Flow per Capita	**399.96**	**litres/day/person**
Irrigation Flow is	**11.67%**	**of the Influent Flow**

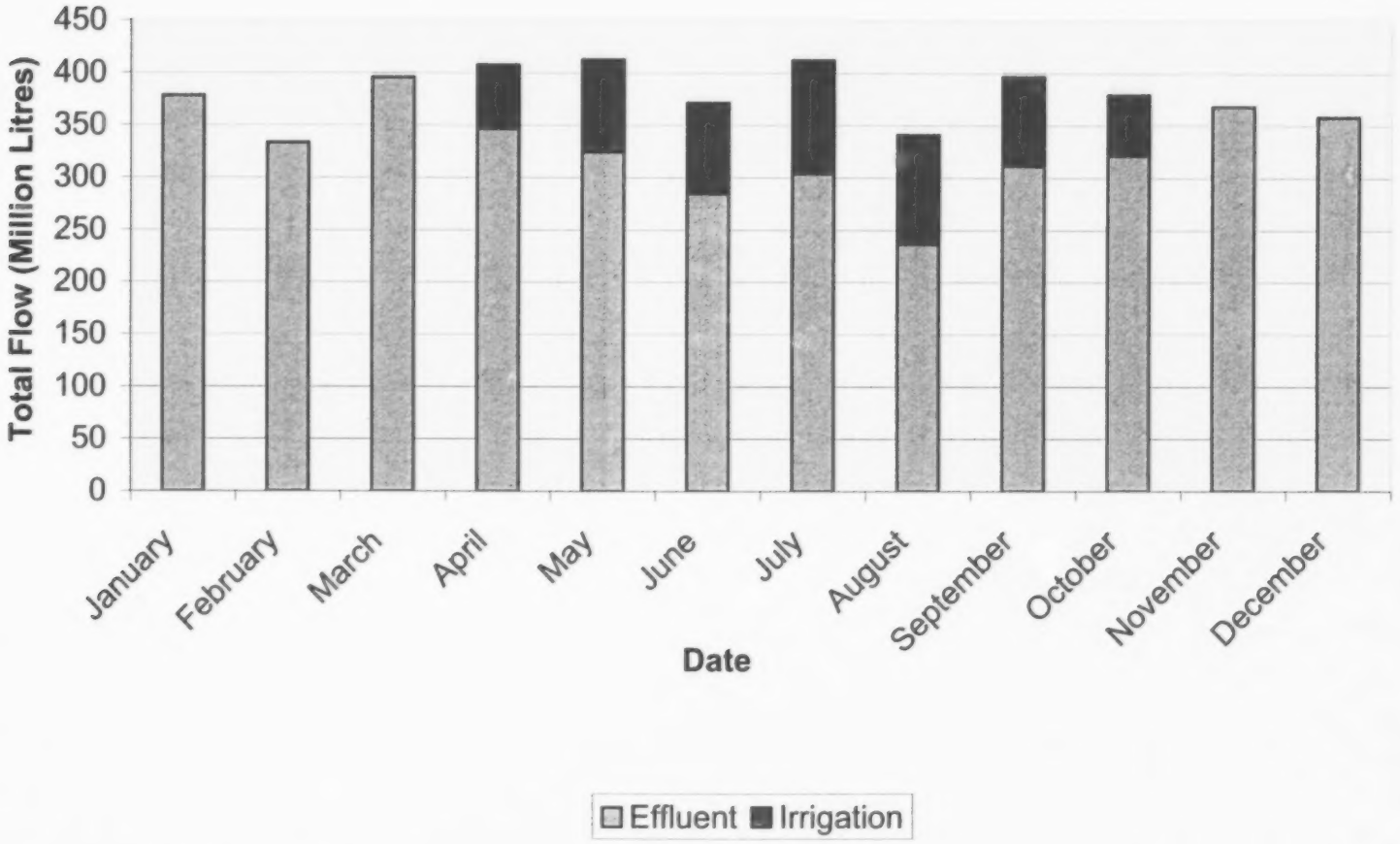
Monthly Average Effluent Flows Compared to Permit
City of Penticton Advanced Wastewater Treatment Plant 2006



Monthly Maximum Effluent Flows Compared to Permit
City of Penticton Advanced Wastewater Treatment Plant 2006



Total Flow Stacking Bar-Chart City of Penticton Advanced Wastewater Treatment Plant 2006



Daily Average, DailyMaximum, Daily Minimum and Total Flows; Influent, Effluent and Irrigation

City of Penticton Advanced Wastewater Treatment Plant 1996-2006

Date	Average Daily Flow (ML/Day)					Maximum Daily Flow (ML/Day)				Minimum Daily Flow (ML/Day)			Total Flow (Mega Litres)			
	Influent	Effluent	Irrigation [2]	Permit Average Effluent Flow (Yearly Average)	Permit Monthly Maximum Effluent Flow (Monthly Average) [1]	Influent	Effluent	Irrigation	Permit Maximum Effluent Flow (Maximum One Day Flow)	Influent	Effluent	Irrigation	Influent	Effluent	Irrigation	Permit Yearly Maximum Effluent Flow [3]
Jan-96	11.00	11.00	0.00	12.8	13.8	11.80	12.20	0.00	18.2	9.98	10.30	0.00	341.00	341.00	0.00	
Feb-96	11.30	11.10	0.00	12.8	13.8	14.40	13.40	0.00	18.2	10.10	9.93	0.00	327.70	321.90	0.00	
Mar-96	11.60	10.08	0.00	12.8	13.8	12.40	12.90	0.00	18.2	10.80	3.91	0.00	359.60	334.80	0.00	
Apr-96	12.40	9.60	0.68	12.8	13.8	13.50	12.30	2.13	18.2	11.00	3.52	0.00	372.00	288.00	20.33	
May-96	13.30	11.20	1.03	12.8	13.8	15.00	13.70	5.04	18.2	11.30	7.38	0.00	412.30	347.20	32.05	
Jun-96	13.80	11.00	1.43	12.8	13.8	14.90	12.90	2.94	18.2	12.60	9.29	0.00	414.00	330.00	42.75	
Jul-96	14.70	9.40	3.44	12.8	13.8	15.80	11.60	6.11	18.2	13.30	7.29	1.51	455.70	291.40	106.64	
Aug-96	15.00	11.30	1.59	12.8	13.8	16.40	13.60	2.52	18.2	14.00	10.40	0.31	465.00	350.30	49.17	
Sep-96	13.90	11.40	1.17	12.8	13.8	15.20	14.60	2.96	18.2	12.00	9.20	0.00	417.00	342.00	35.22	
Oct-96	13.80	12.50	0.00	12.8	13.8	16.20	14.90	0.00	18.2	11.40	9.98	0.00	427.80	387.50	0.00	
Nov-96	12.60	12.30	0.00	12.8	13.8	14.90	14.30	0.00	18.2	11.30	9.99	0.00	378.00	369.00	0.00	
Dec-96	11.90	12.20	0.00	12.8	13.8	14.70	14.20	0.00	18.2	9.47	9.13	0.00	368.90	378.20	0.00	
Jan-97	13.00	12.50	0.00	13.1	14.1	16.10	15.30	0.00	18.2	11.70	11.30	0.00	403.00	387.50	0.00	
Feb-97	12.50	11.10	0.00	13.1	14.1	13.60	14.10	0.00	18.2	10.20	0.11	0.00	350.00	310.80	0.00	
Mar-97	12.30	12.70	0.00	13.1	14.1	15.10	14.70	0.00	18.2	9.51	11.40	0.00	381.30	393.70	0.00	
Apr-97	12.30	11.50	0.10	13.1	14.1	15.00	14.00	0.82	18.2	11.00	8.00	0.00	369.00	345.00	2.89	
May-97	13.50	11.10	0.70	13.1	14.1	15.00	13.30	2.64	18.2	12.60	9.26	0.00	418.50	344.10	21.68	
Jun-97	14.50	12.00	0.35	13.1	14.1	16.90	15.40	1.68	18.2	12.70	9.70	0.00	435.00	360.00	10.43	
Jul-97	16.20	12.10	2.52	13.1	14.1	17.70	16.00	5.81	18.2	13.90	5.30	0.00	502.20	375.10	78.15	
Aug-97	16.70	10.00	4.11	13.1	14.1	17.70	14.90	5.82	18.2	15.20	7.30	0.70	517.70	310.00	127.47	
Sep-97	14.70	8.60	3.78	13.1	14.1	17.20	15.63	5.44	18.2	12.70	3.78	0.00	441.00	258.00	113.43	
Oct-97	13.30	8.80	2.51	13.1	14.1	14.60	12.80	4.79	18.2	12.40	6.21	0.00	412.30	272.80	77.93	
Nov-97	12.20	10.20	0.00	13.1	14.1	13.30	12.50	0.00	18.2	11.20	2.58	0.00	366.00	306.00	0.00	
Dec-97	11.70	10.00	0.00	13.1	14.1	13.50	13.80	0.00	18.2	10.00	6.53	0.00	362.70	310.00	0.00	
Jan-98	12.09	11.02	0.00	13.4	14.4	13.82	12.40	0.00	18.2	10.41	9.90	0.00	374.84	341.66	0.00	
Feb-98	12.13	10.29	0.00	13.4	14.4	13.12	11.50	0.00	18.2	10.57	9.29	0.00	339.52	288.16	0.00	
Mar-98	12.62	10.00	0.00	13.4	14.4	13.98	11.48	0.00	18.2	11.96	8.33	0.00	391.23	309.88	0.00	
Apr-98	12.91	10.02	0.00	13.4	14.4	13.85	12.36	0.00	18.2	12.20	2.79	0.00	387.22	300.61	0.00	
May-98	13.77	9.19	1.67	13.4	14.4	15.73	12.56	3.52	18.2	12.96	7.13	0.00	426.99	284.75	33.49	

Daily Average, DailyMaximum, Daily Minimum and Total Flows; Influent, Effluent and Irrigation

City of Penticton Advanced Wastewater Treatment Plant 1996-2006

Date	Average Daily Flow (ML/Day)					Maximum Daily Flow (ML/Day)				Minimum Daily Flow (ML/Day)			Total Flow (Mega Litres)			
	Influent	Effluent	Irrigation [2]	Permit Average Effluent Flow (Yearly Average)	Permit Monthly Maximum Effluent Flow (Monthly Average) [1]	Influent	Effluent	Irrigation	Permit Maximum Effluent Flow (Maximum One Day Flow)	Influent	Effluent	Irrigation	Influent	Effluent	Irrigation	Permit Yearly Maximum Effluent Flow [1]
Jan-98	14.54	9.42	1.67	13.4	14.4	15.78	11.67	3.18	18.2	13.50	5.97	0.00	436.16	282.75	50.22	
Jul-98	15.85	9.91	2.38	13.4	14.4	16.87	11.98	5.29	18.2	14.61	6.40	0.78	491.23	307.13	73.92	
Aug-98	15.93	9.68	2.44	13.4	14.4	17.86	11.01	2.90	18.2	14.56	7.55	1.72	493.95	300.16	75.49	
Sep-98	14.36	11.14	2.37	13.4	14.4	15.95	13.25	3.03	18.2	13.23	7.48	0.65	430.93	334.05	61.70	
Oct-98	13.32	12.39	0.00	13.4	14.4	14.43	15.22	0.00	18.2	11.72	8.93	0.00	412.98	384.01	0.00	
Nov-98	12.72	12.81	0.00	13.4	14.4	14.41	14.52	0.00	18.2	10.18	11.35	0.00	381.66	384.19	0.00	
Dec-98	12.10	9.25	0.00	13.4	14.4	14.10	14.08	0.00	18.2	10.25	5.37	0.00	375.12	286.71	0.00	
Jan-99	12.12	12.09	0.00	13.7	14.7	13.21	13.28	0.00	18.2	11.06	11.32	0.00	375.78	374.70	0.00	
Feb-99	11.94	10.64	0.00	13.7	14.7	12.42	12.57	0.00	18.2	11.53	9.12	0.00	334.24	298.03	0.00	
Mar-99	12.26	10.64	0.00	13.7	14.7	16.21	12.46	0.00	18.2	8.17	8.54	0.00	380.07	329.91	0.00	
Apr-99	12.70	10.71	1.77	13.7	14.7	13.93	12.45	2.36	18.2	10.71	9.34	0.52	380.96	321.32	15.97	
May-99	13.36	11.56	0.71	13.7	14.7	14.39	13.99	2.84	18.2	12.12	7.97	0.00	414.05	358.51	21.85	
Jun-99	13.92	10.67	1.07	13.7	14.7	15.68	13.36	2.79	18.2	12.60	8.16	0.00	417.52	320.04	32.24	
Jul-99	15.84	11.71	1.60	13.7	14.7	16.84	13.35	3.22	18.2	14.62	9.94	0.00	490.97	362.91	49.47	
Aug-99	15.82	13.88	1.59	13.7	14.7	17.04	17.85	3.18	18.2	14.44	11.09	0.00	490.31	430.27	49.41	
Sep-99	14.14	13.60	0.67	13.7	14.7	14.81	18.04	2.03	18.2	13.31	11.12	0.00	424.06	408.00	20.05	
Oct-99	13.26	13.13	0.29	13.7	14.7	14.11	16.98	2.26	18.2	12.28	9.11	0.00	410.97	406.88	9.29	
Nov-99	12.55	12.43	0.00	13.7	14.7	13.72	14.73	0.00	18.2	11.90	10.13	0.00	376.65	372.77	0.00	
Dec-99	12.17	12.21	0.00	13.7	14.7	13.49	13.66	0.00	18.2	10.56	10.31	0.00	377.29	378.41	0.00	
Jan-00	12.01	12.32	0.00	14.0	15.0	12.77	14.80	0.00	18.2	10.48	10.64	0.00	372.23	381.89	0.00	
Feb-00	11.97	12.20	0.00	14.0	15.0	13.65	15.23	0.00	18.2	10.42	10.14	0.00	347.09	353.94	0.00	
Mar-00	11.89	12.47	0.00	14.0	15.0	13.09	15.01	0.00	18.2	11.16	8.64	0.00	368.68	386.59	0.00	
Apr-00	12.73	10.79	1.08	14.0	15.0	14.24	15.11	2.63	18.2	11.38	8.19	0.00	381.96	323.60	32.51	
May-00	13.78	10.98	1.21	14.0	15.0	14.89	14.13	3.75	18.2	12.27	8.29	0.00	427.30	340.51	37.62	
Jun-00	13.88	11.04	1.68	14.0	15.0	14.97	16.16	4.39	18.2	13.04	6.82	0.00	416.48	331.26	50.49	
Jul-00	15.09	9.24	1.56	14.0	15.0	16.55	13.43	2.89	18.2	13.93	5.19	0.00	467.86	286.48	48.39	
Aug-00	15.72	10.42	1.42	14.0	15.0	16.93	14.81	2.75	18.2	14.72	3.70	0.00	487.26	322.91	44.06	
Sep-00	13.97	12.43	0.56	14.0	15.0	15.79	13.63	1.48	18.2	12.77	11.25	0.00	419.00	372.83	14.45	
Oct-00	13.04	12.00	0.47	14.0	15.0	15.46	13.92	2.77	18.2	10.97	10.65	0.00	404.32	372.03	15.38	
Nov-00	12.22	13.00	0.00	14.0	15.0	13.12	13.77	0.00	18.2	11.24	12.01	0.00	366.73	390.11	0.00	
Dec-00	11.89	12.52	0.00	14.0	15.0	12.57	13.06	0.00	18.2	10.50	11.77	0.00	368.57	388.17	0.00	
Jan-01	11.87	12.28	0.00	14.3	15.3	12.96	12.99	0.00	18.2	11.24	11.73	0.00	367.88	380.73	0.00	
Feb-01	11.97	12.25	0.00	14.3	15.3	12.41	12.76	0.00	18.2	11.41	11.91	0.00	335.15	343.00	0.00	
Mar-01	12.42	12.03	0.02	14.3	15.3	12.97	13.13	0.06	18.2	11.93	10.62	0.00	384.87	373.03	0.13	
Apr-01	12.59	10.22	2.68	14.3	15.3	13.60	11.73	5.15	18.2	11.70	8.83	0.00	377.81	306.75	80.31	
May-01	13.60	10.57	1.50	14.3	15.3	14.51	11.60	2.83	18.2	12.36	9.47	0.00	421.67	327.72	46.57	
Jun-01	13.88	11.24	1.12	14.3	15.3	15.22	12.45	2.40	18.2	12.95	9.74	0.00	416.40	337.08	33.50	
Jul-01	15.27	12.20	1.45	14.3	15.3	16.54	14.74	2.77	18.2	12.98	10.44	0.00	473.47	378.29	44.83	
Aug-01	15.59	12.45	1.84	14.3	15.3	16.33	13.69	2.76	18.2	14.25	11.41	0.00	483.25	386.03	56.99	
Sep-01	13.97	11.69	1.58	14.3	15.3	15.18	13.05	2.75	18.2	12.95	10.68	0.00	419.11	350.72	45.72	
Oct-01	13.09	12.03	1.09	14.3	15.3	13.80	13.00	2.30	18.2	12.05	10.68	0.00	405.75	372.78	15.06	
Nov-01	12.39	12.59	0.00	14.3	15.3	12.86	13.73	0.00	18.2	11.56	11.11	0.00	371.74	377.81	0.00	
Dec-01	12.14	11.12	0.00	14.3	15.3	13.98	12.36	0.00	18.2	10.54	9.72	0.00	376.26	344.87	0.00	

Daily Average, DailyMaximum, Daily Minimum and Total Flows; Influent, Effluent and Irrigation

City of Penticton Advanced Wastewater Treatment Plant 1996-2006

Date	Average Daily Flow (ML/Day)					Maximum Daily Flow (ML/Day)				Minimum Daily Flow (ML/Day)			Total Flow (Mega Litres)			
	Influent	Effluent	Irrigation [2]	Permit Average Effluent Flow (Yearly Average)	Permit Monthly Maximum Effluent Flow (Monthly Average) [1]	Influent	Effluent	Irrigation	Permit Maximum Effluent Flow (Maximum One Day Flow)	Influent	Effluent	Irrigation	Influent	Effluent	Irrigation	Permit Yearly Maximum Effluent Flow [3]
Jan-02	12.04	11.57	0.00	14.6	15.6	12.90	12.21	0.00	18.2	11.20	10.69	0.00	373.31	358.80	0.00	
Feb-02	11.94	11.69	0.00	14.6	15.6	12.39	12.64	0.00	18.2	11.51	10.95	0.00	334.20	327.20	0.00	
Mar-02	12.06	12.05	0.00	14.6	15.6	12.88	12.64	0.00	18.2	10.91	11.15	0.00	373.94	373.55	0.00	
Apr-02	12.68	11.98	0.30	14.6	15.6	14.81	12.98	0.81	18.2	11.88	10.93	0.04	380.41	359.48	1.19	
May-02	13.42	11.68	0.84	14.6	15.6	14.82	13.07	2.65	18.2	12.60	10.48	0.00	416.17	362.15	24.40	
Jun-02	13.95	10.60	1.57	14.6	15.6	15.51	11.81	2.43	18.2	13.22	9.60	0.00	418.61	318.13	47.21	
Jul-02	15.11	11.15	1.91	14.6	15.6	16.08	11.98	2.40	18.2	13.88	9.96	0.18	468.45	345.63	59.19	
Aug-02	15.56	12.11	1.88	14.6	15.6	17.10	12.94	2.37	18.2	14.23	11.42	0.22	482.23	375.27	58.40	
Sep-02	14.06	11.62	1.24	14.6	15.6	14.75	12.43	1.86	18.2	13.02	10.91	0.00	421.66	348.73	37.30	
Oct-02	13.47	11.89	0.46	14.6	15.6	14.51	14.85	2.18	18.2	12.20	5.18	0.00	417.50	368.45	10.70	
Nov-02	12.80	15.90	0.00	14.6	15.6	13.56	18.29	0.00	18.2	11.87	12.75	0.00	384.12	477.05	0.00	
Dec-02	12.46	17.49	0.00	14.6	15.6	14.08	21.76	0.00	18.2	10.61	14.85	0.00	386.14	542.13	0.00	
Jan-03	12.39	17.33	0.00	14.9	15.9	13.39	20.15	0.00	18.2	11.51	15.81	0.00	384.03	537.15	0.00	
Feb-03	12.47	17.24	0.00	14.9	15.9	13.30	19.31	0.00	18.2	11.67	15.59	0.00	349.26	482.69	0.00	
Mar-03	12.62	18.43	0.00	14.9	15.9	13.39	19.84	0.00	18.2	11.78	16.89	0.00	391.09	571.46	0.00	
Apr-03	13.24	16.49	0.72	14.9	15.9	14.10	19.62	3.62	18.2	12.06	11.52	0.00	397.29	494.63	20.21	
May-03	13.89	8.54	2.73	14.9	15.9	15.69	12.00	4.17	18.2	12.86	5.34	0.16	430.49	264.67	84.52	
Jun-03	14.22	5.63	3.09	14.9	15.9	15.21	8.63	4.34	18.2	13.44	2.97	0.61	426.62	168.91	92.70	
Jul-03	15.13	10.82	2.92	14.9	15.9	16.72	16.44	4.41	18.2	13.94	6.92	1.14	469.14	335.38	90.54	
Aug-03	15.84	11.68	1.73	14.9	15.9	17.11	24.16	2.85	18.2	13.24	0.00	0.77	491.06	362.21	53.67	
Sep-03	14.25	3.21	2.39	14.9	15.9	15.84	19.75	5.23	18.2	12.07	0.00	0.00	427.62	96.24	71.64	
Oct-03	13.88	8.37	3.14	14.9	15.9	14.92	14.96	4.45	18.2	13.43	0.00	0.97	430.22	259.42	53.36	
Nov-03	13.03	13.09	0.00	14.9	15.9	13.91	15.21	0.00	18.2	12.49	12.20	0.00	390.95	392.71	0.00	
Dec-03	13.48	13.20	0.00	14.9	15.9	15.30	15.44	0.00	18.2	11.88	12.15	0.00	418.01	409.26	0.00	
Jan-04	12.66	13.06	0.00	15.2	16.2	14.06	14.71	0.00	18.2	11.60	12.25	0.00	392.46	404.76	0.00	
Feb-04	13.05	13.73	0.00	15.2	16.2	14.23	14.68	0.00	18.2	12.41	12.86	0.00	365.40	398.22	0.00	
Mar-04	13.10	14.17	0.00	15.2	16.2	13.68	15.35	0.00	18.2	12.46	12.94	0.00	406.08	439.13	0.00	
Apr-04	13.78	13.78	0.00	15.2	16.2	15.52	15.36	0.00	18.2	12.30	13.15	1.05	413.50	413.46	0.04	
May-04	9.18	11.71	0.00	15.2	16.2	18.00	15.32	0.00	18.2	14.23	14.22	0.00	15.54	15.54	0.00	
Jun-04	14.48	11.88	0.00	15.2	16.2	16.25	16.61	0.00	18.2	13.56	13.56	0.00	434.33	434.33	0.00	
Jul-04	15.24	12.89	0.00	15.2	16.2	17.04	16.61	0.00	18.2	10.96	10.96	0.00	472.55	472.55	0.00	
Aug-04	15.39	15.13	3.55	15.2	16.2	16.07	17.91	4.41	18.2	14.03	13.13	0.90	477.04	366.94	110.10	
Sep-04	14.27	14.28	2.50	15.2	16.2	15.19	16.56	3.56	18.2	13.67	13.43	0.24	428.01	353.02	74.99	
Oct-04	13.59	14.53	1.46	15.2	16.2	14.93	16.07	5.48	18.2	12.16	12.16	0.00	421.28	375.88	45.40	
Nov-04	13.07	13.87	0.00	15.2	16.2	14.52	15.01	0.00	18.2	12.15	12.40	0.00	392.09	416.20	0.00	
Dec-04	12.62	13.10	0.00	15.2	16.2	13.81	14.10	0.00	18.2	10.94	11.80	0.00	391.28	406.30	0.00	

Daily Average, DailyMaximum, Daily Minimum and Total Flows; Influent, Effluent and Irrigation

City of Penticton Advanced Wastewater Treatment Plant 1996-2006

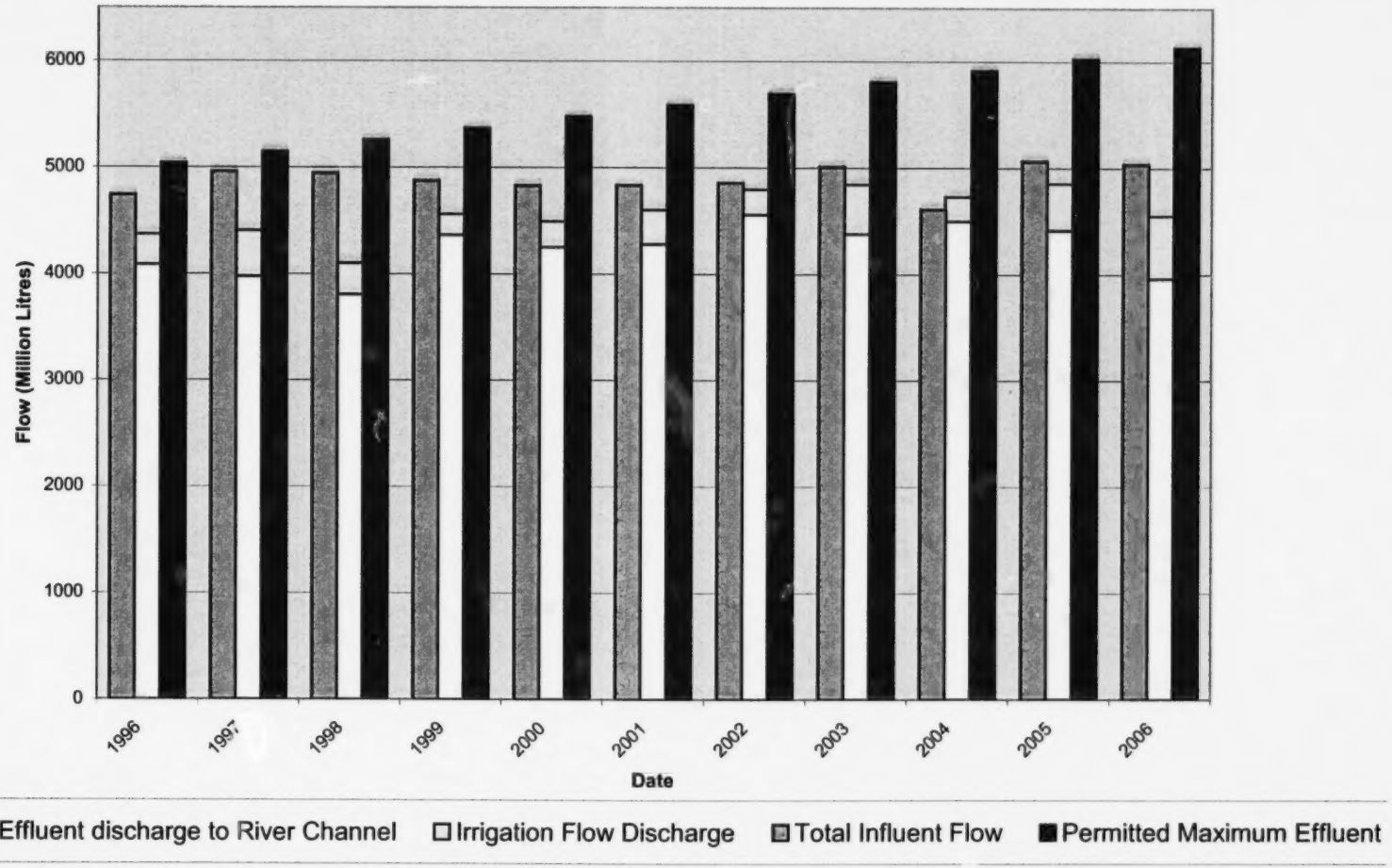
Date	Average Daily Flow (ML/Day)					Maximum Daily Flow (ML/Day)				Minimum Daily Flow (ML/Day)			Total Flow (Mega Litres)			
	Influent	Effluent	Irrigation [2]	Permit Average Effluent Flow (Yearly Average)	Permit Monthly Maximum Effluent Flow (Monthly Average) [1]	Influent	Effluent	Irrigation	Permit Maximum Effluent Flow (Maximum One Day Flow)	Influent	Effluent	Irrigation	Influent	Effluent	Irrigation	Permit Yearly Maximum Effluent Flow [3]
Jan-05	12.66	12.37	0.00	15.5	16.5	14.06	14.14	0.00	18.2	11.60	11.04	0.00	392.46	383.52	0.00	
Feb-05	13.05	12.64	0.00	15.5	16.5	14.23	13.98	0.00	18.2	12.41	11.23	0.00	365.40	353.97	0.00	
Mar-05	13.10	12.73	0.00	15.5	16.5	13.68	13.46	0.00	18.2	12.46	11.95	0.00	406.08	394.61	0.00	
Apr-05	13.78	11.75	2.44	15.5	16.5	15.52	13.69	3.65	18.2	12.30	8.12	0.00	413.50	352.35	26.89	
May-05	15.05	11.09	1.15	15.5	16.5	16.06	15.26	2.70	18.2	14.23	0.00	0.00	466.68	343.68	35.68	
Jun-05	14.48	12.21	1.54	15.5	16.5	16.25	15.66	3.36	18.2	13.56	8.98	0.00	434.33	366.35	46.24	
Jul-05	15.24	11.56	3.28	15.5	16.5	17.04	14.99	6.07	18.2	10.96	8.98	0.00	472.55	358.51	101.53	
Aug-05	15.39	11.30	3.55	15.5	16.5	16.07	14.18	4.41	18.2	14.03	10.20	0.90	477.04	350.43	110.10	
Sep-05	14.27	11.03	2.50	15.5	16.5	15.19	13.38	3.56	18.2	13.67	9.89	0.24	428.01	330.86	74.99	
Oct-05	13.59	11.75	1.46	15.5	16.5	14.93	14.33	5.48	18.2	12.16	7.30	0.00	421.28	364.27	45.40	
Nov-05	13.07	13.71	0.00	15.5	16.5	14.52	14.80	0.00	18.2	12.15	12.43	0.00	392.09	411.28	0.00	
Dec-05	12.62	12.93	0.00	15.5	16.5	13.81	14.12	0.00	18.2	10.94	11.80	0.00	391.28	400.70	0.00	
Jan-06	13.02	12.20	0.00	15.8	16.8	13.84	13.31	0.00	18.2	11.63	11.40	0.00	403.56	378.08	0.00	
Feb-06	12.46	11.89	0.00	15.8	16.8	13.87	15.17	0.00	18.2	11.74	9.19	0.00	348.91	333.02	0.00	
Mar-06	12.95	12.75	0.00	15.8	16.8	13.71	13.94	0.00	18.2	11.98	11.61	0.00	401.37	395.40	0.00	
Apr-06	13.65	11.54	0.00	15.8	16.8	15.74	14.28	0.00	18.2	12.40	10.20	0.00	409.61	346.23	61.03	
May-06	14.71	10.46	0.00	15.8	16.8	16.66	13.18	0.00	18.2	13.71	6.76	1.19	456.16	324.18	88.17	
Jun-06	14.83	9.48	0.00	15.8	16.8	16.21	12.14	0.00	18.2	13.88	7.06	1.46	444.82	284.48	86.50	
Jul-06	15.40	9.79	0.00	15.8	16.8	17.03	13.25	0.00	18.2	13.94	7.26	0.25	477.37	303.61	108.23	
Aug-06	15.33	7.63	0.00	15.8	16.8	16.28	9.14	0.00	18.2	14.52	5.05	2.00	475.08	236.57	104.14	
Sep-06	14.18	10.38	0.00	15.8	16.8	15.83	12.38	0.00	18.2	13.25	6.09	1.94	425.47	311.26	84.97	
Oct-06	13.47	10.36	0.00	15.8	16.8	14.56	12.21	0.00	18.2	12.41	7.87	0.00	417.51	321.14	57.79	
Nov-06	12.68	12.26	0.00	15.8	16.8	13.88	15.26	0.00	18.2	11.08	10.74	0.00	380.43	367.91	0.00	
Dec-06	12.71	11.55	0.00	15.8	16.8	14.21	15.15	0.00	18.2	11.14	10.49	0.00	393.93	357.95	0.00	
1996	12.94	11.09	0.78	12.8	13.8	16.40	14.90	6.11	18.2	9.47	3.52	0.00	4739.00	4081.30	286.15	5037.00
1997	13.58	10.88	1.17	13.1	14.1	17.70	16.00	5.82	18.2	9.51	0.11	0.00	4958.70	3973.00	431.98	5146.50
1998	13.53	10.43	0.88	13.4	14.4	17.86	15.22	5.29	18.2	10.18	2.79	0.00	4941.83	3804.06	294.82	5256.00
1999	13.34	11.94	0.64	13.7	14.7	17.04	18.04	3.22	18.2	8.17	7.97	0.00	4872.88	4361.74	198.26	5365.50
2000	13.18	11.62	0.67	14.0	15.0	16.93	16.16	4.39	18.2	10.42	3.70	0.00	4827.50	4250.31	242.90	5475.00
2001	13.23	11.72	0.94	14.3	15.3	16.54	14.74	5.15	18.2	10.54	8.83	0.00	4833.34	4278.82	323.11	5584.50
2002	13.30	12.48	0.68	14.6	15.6	17.10	21.76	2.65	18.2	10.61	5.18	0.00	4856.73	4556.58	238.39	5694.00
2003	13.70	12.00	1.39	14.9	15.9	17.11	24.16	5.23	18.2	11.51	0.00	0.00	5005.78	4374.73	466.65	5803.50
2004	13.37	13.51	0.63	15.2	16.2	18.00	17.91	5.48	18.2	10.94	10.96	0.00	4609.55	4496.32	230.53	5913.00
2005	13.86	12.10	1.33	15.5	16.5	17.04	15.66	6.07	18.2	10.94	0.00	0.00	5060.69	4410.52	440.82	6022.50
2006	13.79	10.85	0.00	15.8	16.8	17.03	15.26	0.00	18.2	11.08	5.05	0.00	5034.22	3959.82	590.82	6132.00

[1] Permit Values Originate From the BC Ministry of Water, Land and Air Protection's Operational Certificate for the Penticton Advanced Wastewater Treatment Plant (PE 12212) Section 1.3.1 issued in 1995.

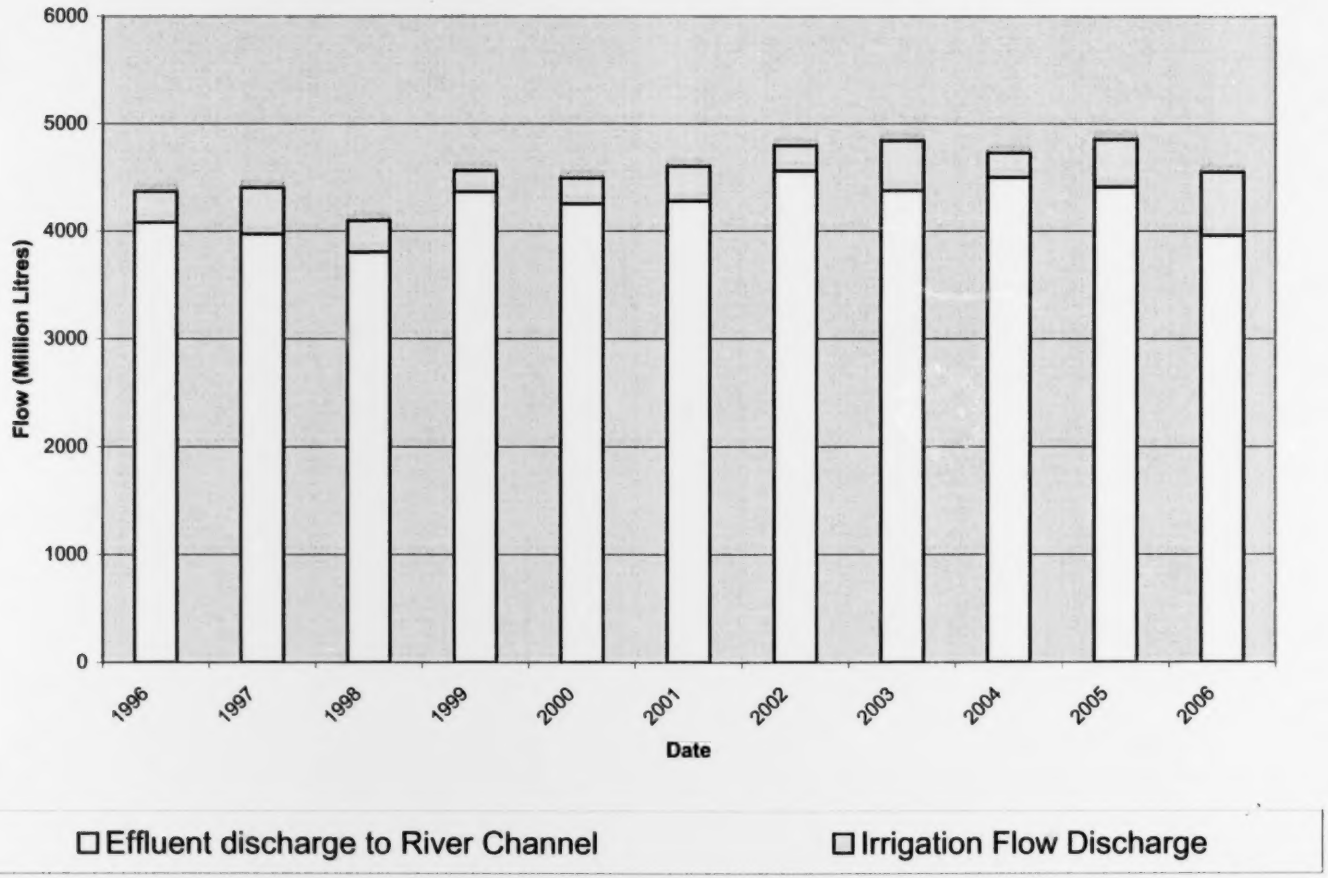
[2] Averages involving the Irrigation flow are calculated over the whole year, not just the summer season.

[3] Extrapolated from the Permit Monthly Maximum Effluent Average Flow numbers.

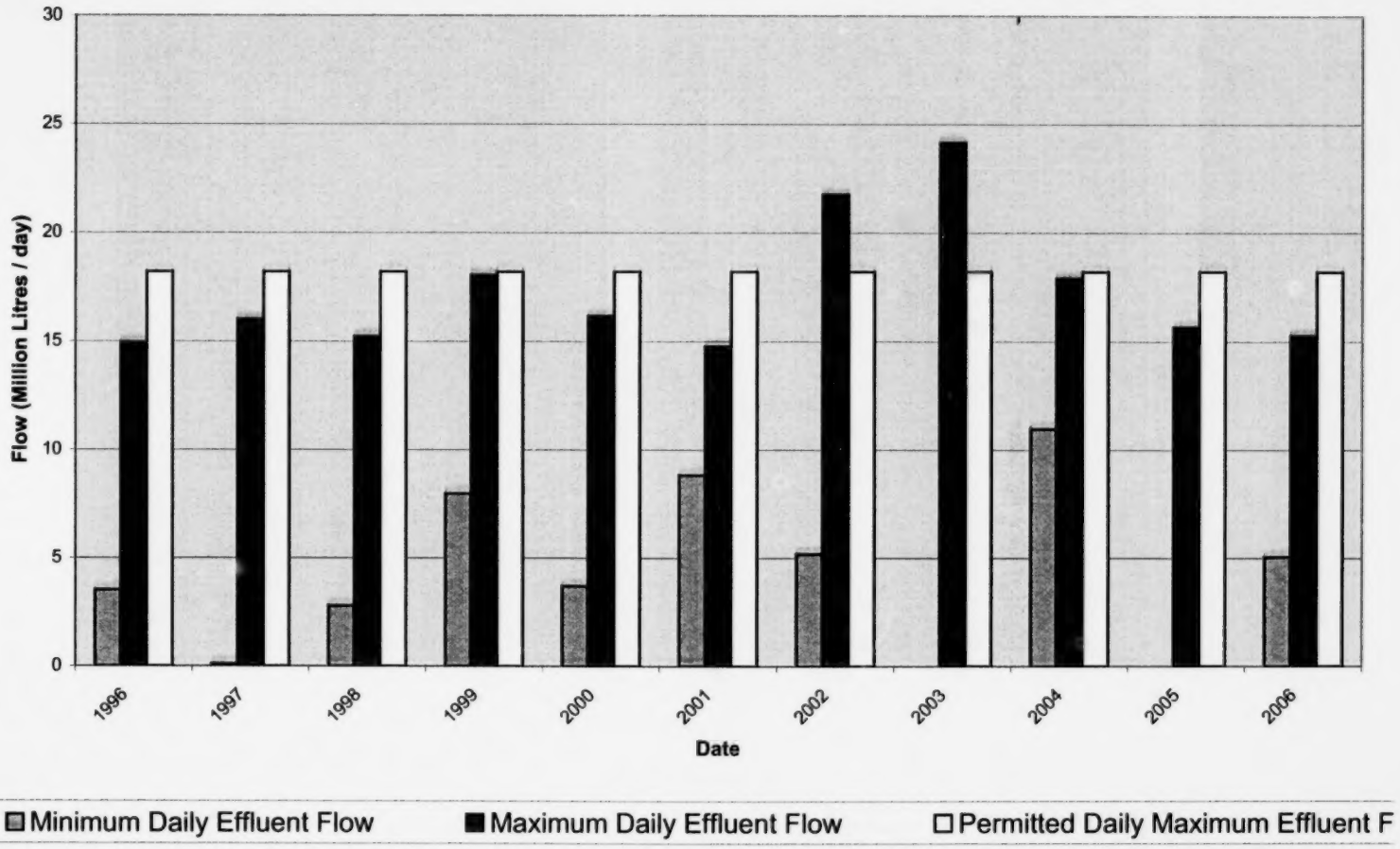
Influent, Effluent and Irrigation Flow WWTP 1996 - 2006 Compared With Permitted Maximum Allowable Effluent Flow City of Penticton Advanced Wastewater Plant



Effluent and Irrigation Flow WWTP 1996 - 2006
City of Penticton Advanced Wastewater Plant



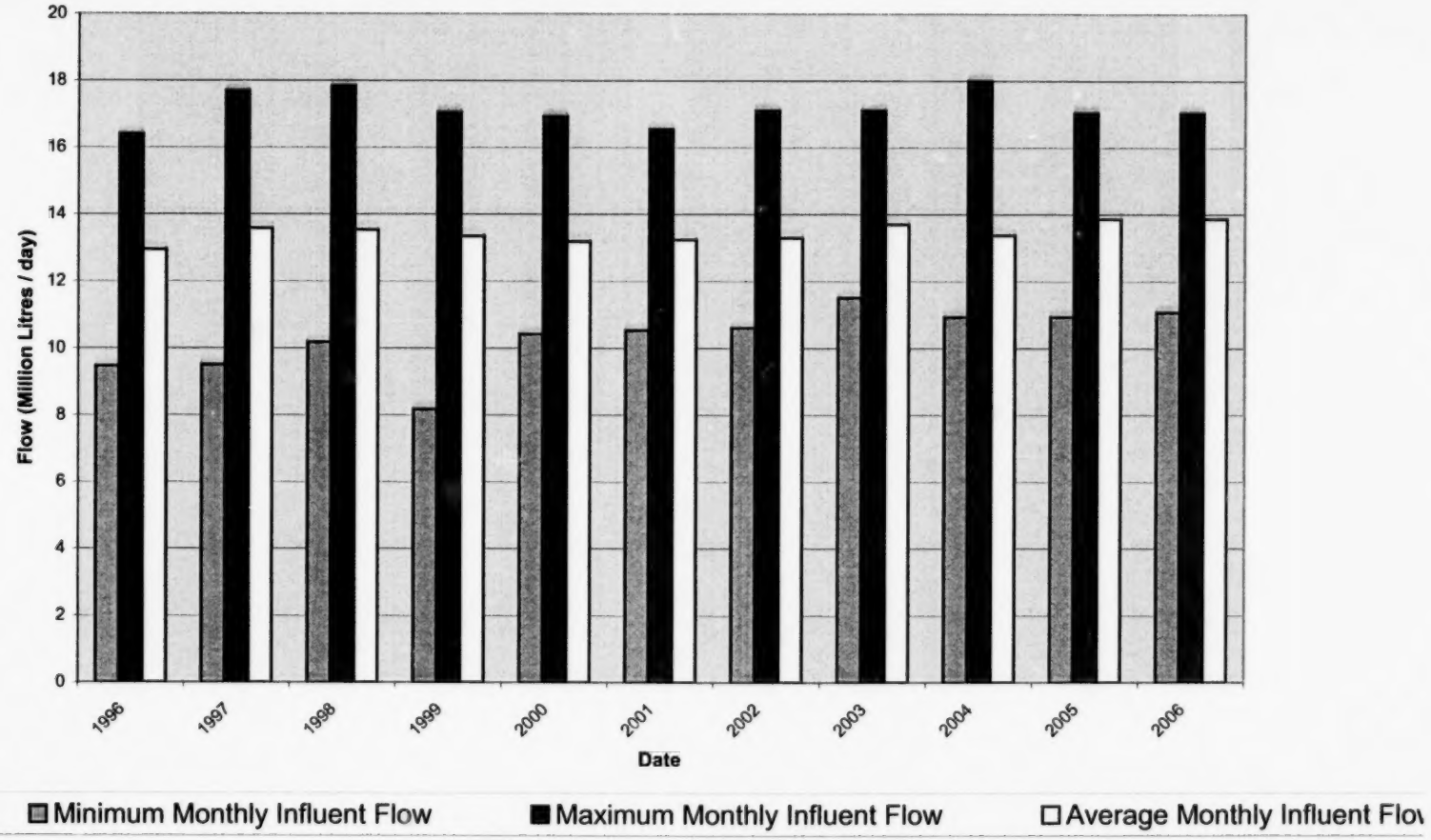
Minimum and Maximum Daily Effluent Flows; 1996 - 2006 Compared to Permitted Maximum Daily Allowable Effluent Flow City of Penticton Advanced Wastewater Plant



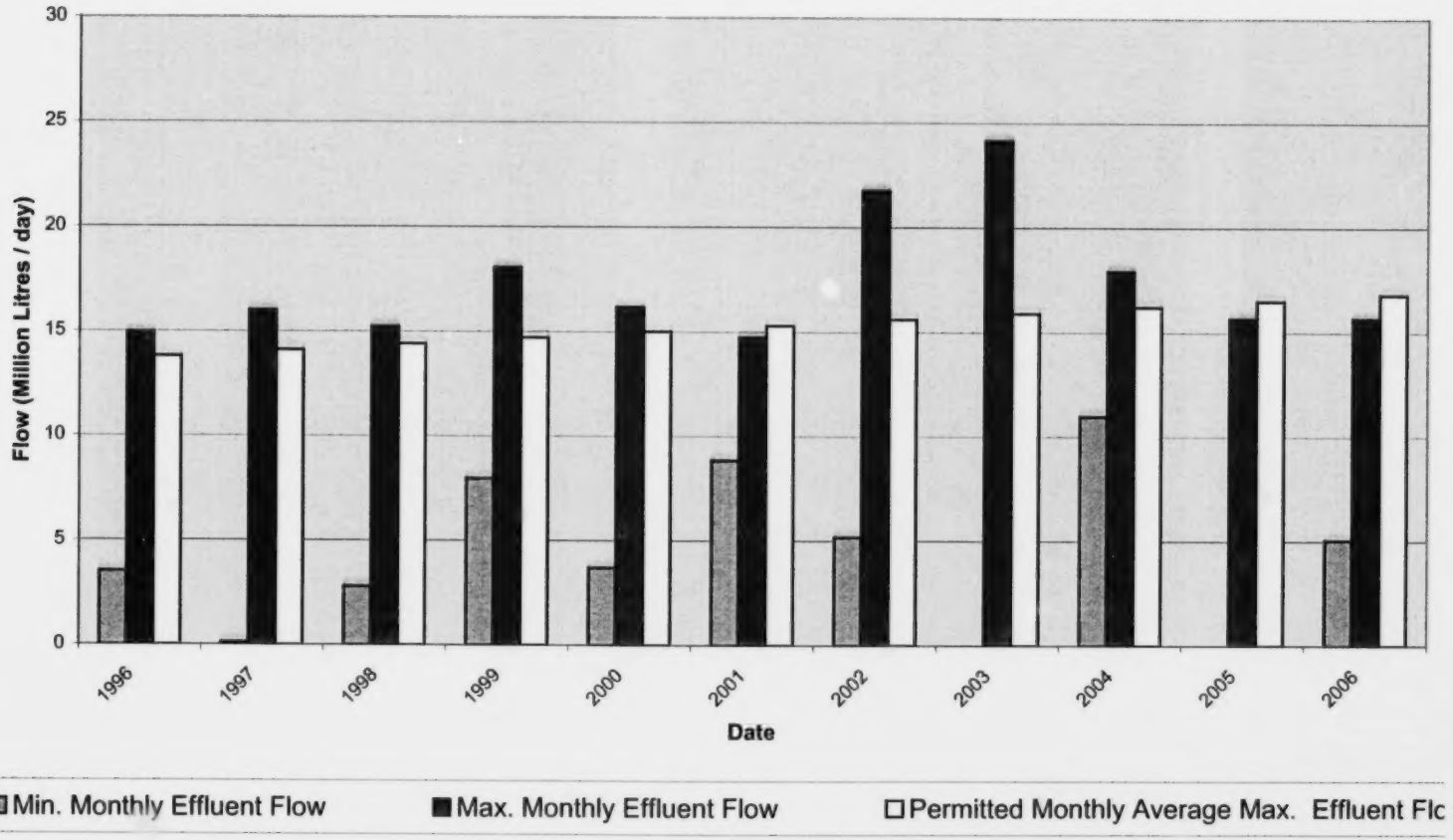
Monthly Average, Monthly Maximum, Monthly Minimum Flows; Influent, Effluent and Irrigation
City of Penticton Advanced Wastewater Treatment Plant 1996-2006

Date	Average Monthly Flow (ML/Day)			Max Monthly Flow (ML/Day)			Minimum Monthly Flow (ML/Day)			
	Influent	Effluent	Irrigation	Influent	Effluent	Irrigation	Influent	Effluent	Irrigation	Permit Monthly Maximum Effluent Flow (Monthly Average) [2]
1996	12.94	11.09	0.78	16.40	14.90	6.11	9.47	3.52	0.00	13.8
1997	13.58	10.88	1.17	17.70	16.00	5.82	9.51	0.11	0.00	14.1
1998	13.53	10.43	0.88	17.86	15.22	5.29	10.18	2.79	0.00	14.4
1999	13.34	11.94	0.64	17.04	18.04	3.22	8.17	7.97	0.00	14.7
2000	13.18	11.62	0.67	16.93	16.16	4.39	10.42	3.70	0.00	15.0
2001	13.23	11.72	0.94	16.54	14.74	5.15	10.54	8.83	0.00	15.3
2002	13.30	12.48	0.68	17.10	21.76	2.65	10.61	5.18	0.00	15.6
2003	13.70	12.00	1.39	17.11	24.16	5.23	11.51	0.00	0.00	15.9
2004	13.37	13.51	0.63	18.00	17.91	5.48	10.94	10.96	0.00	16.2
2005	13.86	12.09	1.33	17.04	15.66	6.07	10.94	0.00	0.00	16.5
2006	13.87	11.43	0.69	17.04	15.66	6.07	11.08	5.05	0.00	16.8

Minimum Monthly, Maximum Monthly, and Average Monthly Influent Flows; 1996 - 2006
City of Penticton Advanced Wastewater Plant



Minimum Monthly, Maximum Monthly, and Average Monthly Effluent Flows; 1996 - 2006
Compared to Permitted Maximum Monthly Average Allowable Effluent Flow
City of Penticton Advanced Wastewater Plant



Appendix B.2.

Ortho & Total Phosphorus Data

Monthly Average Ortho and Total Phosphorus; Influent and Effluent
City of Penticton Advanced Wastewater Treatment Plant 2006

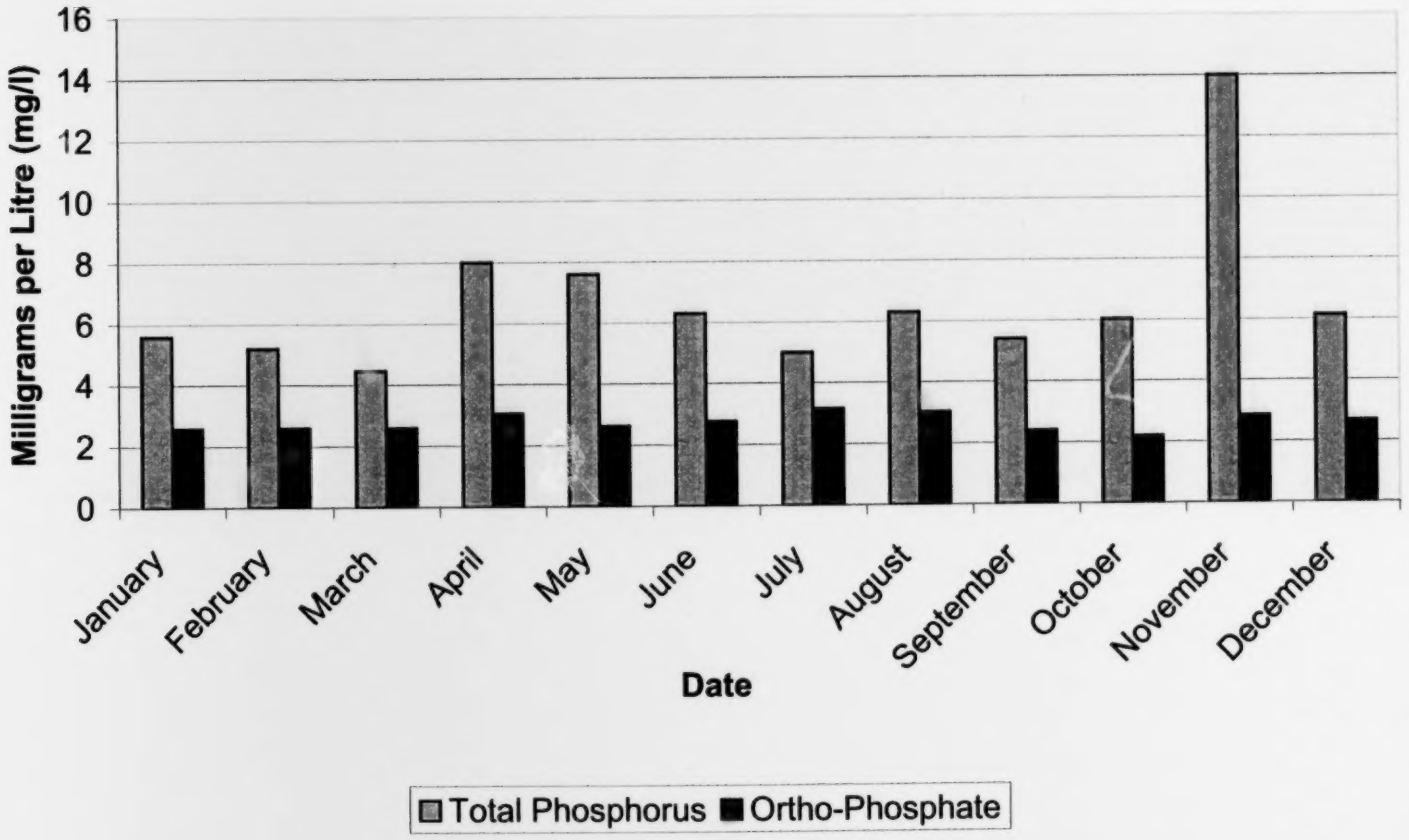
Date	Influent							Effluent								Reduction Efficiency
	Ortho Phosphate as P			Total Phosphorous				Ortho Phosphate as P			Total Phosphorous					
	Average mg/L [1]	Std Dev.	n	Average mg/L [1]	Std Dev.	n	kgs / month	Average mg/L [1]	Std Dev.	n	Average mg/L [1]	Std Dev.	n	Permit Annual Average Total P (Yearly Average) [2]	kgs / month	Total P (%)
January	2.6	0.8	9	5.6	0.0	1	2259.9	0.03	0.01	31	0.11	0.04	4	0.25	39.7	98.2
February	2.6	0.4	7	5.2	0.4	2	1814.3	0.04	0.02	28	0.08	0.03	21	0.25	27.0	98.5
March	2.6	1.7	9	4.5	0.2	2	1792.1	0.04	0.02	31	0.10	0.02	31	0.25	38.9	97.8
April	3.0	0.7	13	8.0	0.0	1	3276.9	0.04	0.03	30	0.11	0.01	30	0.25	37.4	98.9
May	2.6	0.4	15	7.6	0.0	1	3466.8	0.06	0.02	31	0.11	0.01	31	0.25	34.6	99.0
June	2.8	0.4	14	6.3	0.0	1	2802.4	0.08	0.03	30	0.13	0.03	30	0.25	37.1	98.7
July	3.1	0.4	13	5.0	0.0	1	2386.8	0.05	0.01	31	0.10	0.02	31	0.25	30.9	98.7
August	3.0	0.7	12	6.3	0.0	1	2993.0	0.05	0.01	31	0.11	0.01	31	0.25	25.3	99.2
September	2.4	0.3	11	5.4	0.0	1	2297.5	0.05	0.01	30	0.10	0.01	30	0.25	30.3	98.7
October	2.2	0.6	7	6.0	0.0	1	2517.6	0.06	0.02	31	0.10	0.01	31	0.25	30.9	98.8
November	2.8	0.5	5	14.0	0.0	1	5326.0	0.09	0.05	30	0.13	0.05	30	0.25	47.6	99.1
December	2.7	0.4	3	6.1	0.0	1	2414.8	0.03	0.02	31	0.10	0.02	31	0.25	35.0	98.6
Annual Avg.	**2.7**	**0.60**	**9.8**	**6.4**	**0.0**	**1.2**	**2779.0**	**0.05**	**0.02**	**30.4**	**0.11**	**0.02**	**28**		**34.6**	**98.8**
Annual Total			**118**			**14**	**33348.2**			**365**			**331**		**414.6**	

[1] Monthly Averages

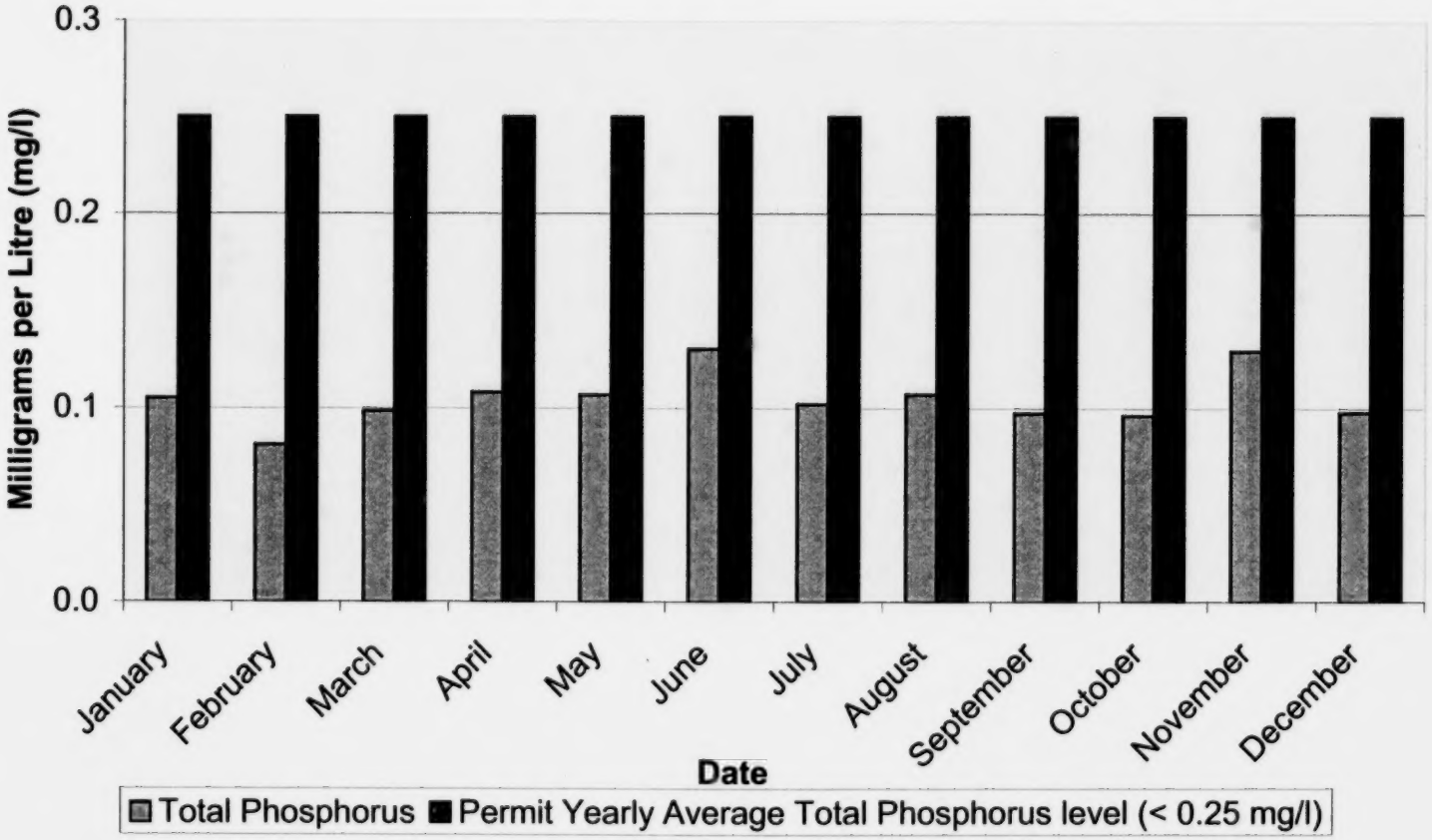
[2] From section 1.5.1 of PE 12212, the annual average is .25 mg/l. The level to strive for is 0.01 mg/l Total Phosphorous, Okanagan Lake background level. The Maximum level is 2.0 mg/l. The 99 percentile is 1.5 mg/l, and the 90 percentile is 1.0 mg/l.

Data for this table was obtained from the Excel Workbook "MOE Data 2006.xls", spreadsheets "Influent" & "Effluent".

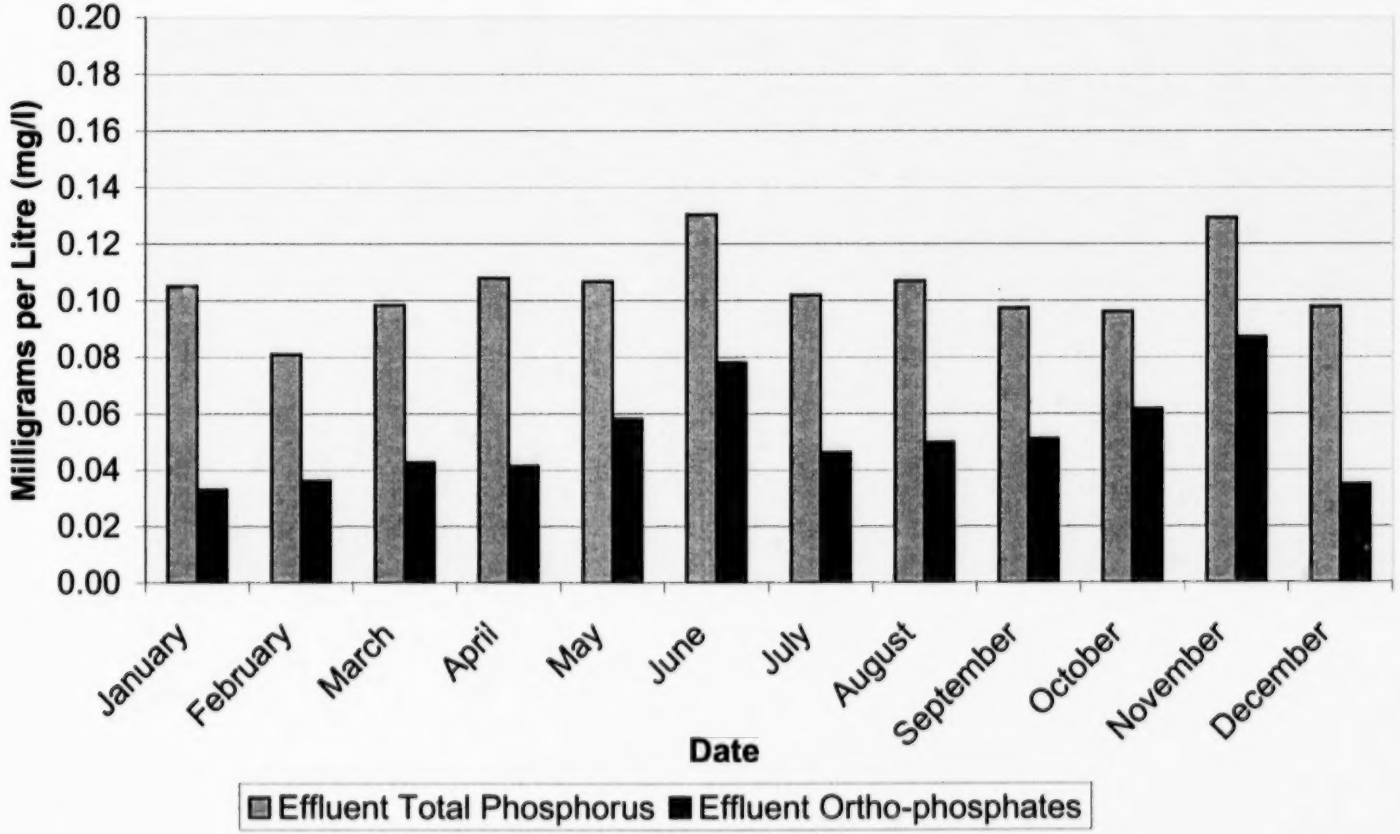
Monthly Average Influent Total Phosphorus & Ortho-Phosphate levels
City of Penticton Advanced Wastewater Treatment Plant 2006



Monthly Average Effluent Total Phosphorus Compared to Permit.
City of Penticton Advanced Wastewater Treatment Plant 2006



Monthly Average Effluent Total Phosphorus & Ortho-phosphate Levels.
City of Penticton Advanced Wastewater Treatment Plant 2006



Monthly Ortho and Total Phosphorus; Okanagan River
City of Penticton Advanced Wastewater Treatment Plant 2006

Date	Upstream				Downstream			
	Ortho Phosphate as P [1]		Total Phosphorous [1]		Ortho Phosphate as P [1]		Total Phosphorous [1]	
	mg/L	n	mg/L	n	mg/L	n	mg/L	n
January	<0.02	1	0.16	1	<0.02	1	0.11	1
February	<0.02	1	<0.02	1	<0.02	1	<0.02	1
March	<0.02	1	<0.02	1	0.02	1	<0.02	1
April	<0.02	1	<0.02	1	<0.02	1	<0.02	1
May	0.03	1	0.03	1	<0.02	1	<0.02	1
June	<0.02	1	<0.02	1	0.02	1	0.02	1
July	<0.02	1	<0.02	1	<0.02	1	<0.02	1
August	<0.02	1	<0.02	1	<0.02	1	<0.02	1
September	0.02	1	<0.02	1	0.02	1	0.09	1
October	<0.02	1	<0.02	1	<0.02	1	0.02	1
November	<0.02	1	<0.02	1	<0.02	1	0.02	1
December	<0.02	1	<0.02	1	<0.02	1	<0.02	1
Annual Average	**0.004**	**1**	**0.02**	**1**	**0.005**	**1**	**0.02**	**1**
Annual Total		**12**		**12**		**12**		**12**

Upstream Sampling Location = East bank of Okanagan River from loading stairs at Coyote Cruises.

Downstream Sampling Location = West bank of Okanagan River from landing stairs upstream of Shingle Creek.

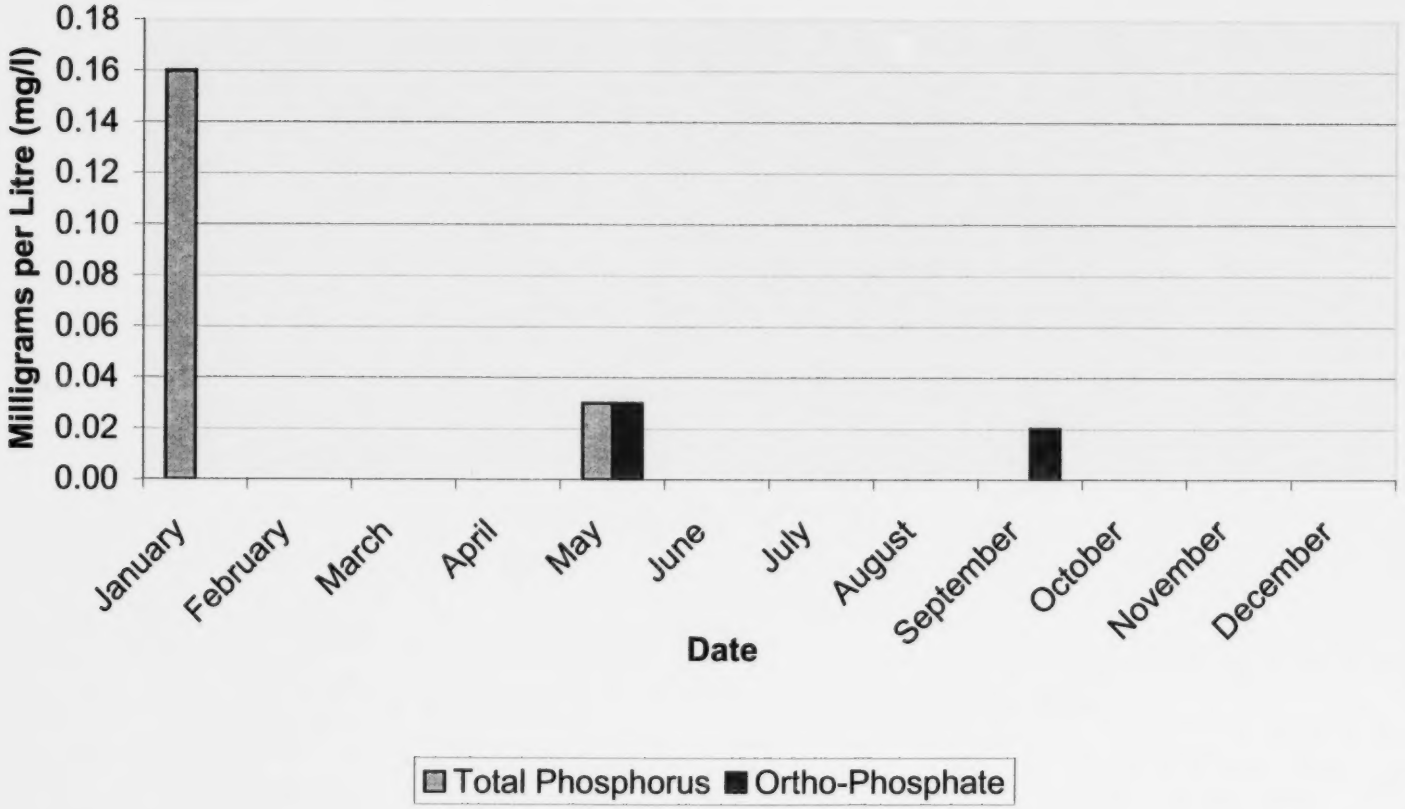
[1] Less than data values were included in the monthly & annual average calculations. They were assumed to be the same as the lowest detection limit (0.02 mg/l).

[2] Monthly Averages

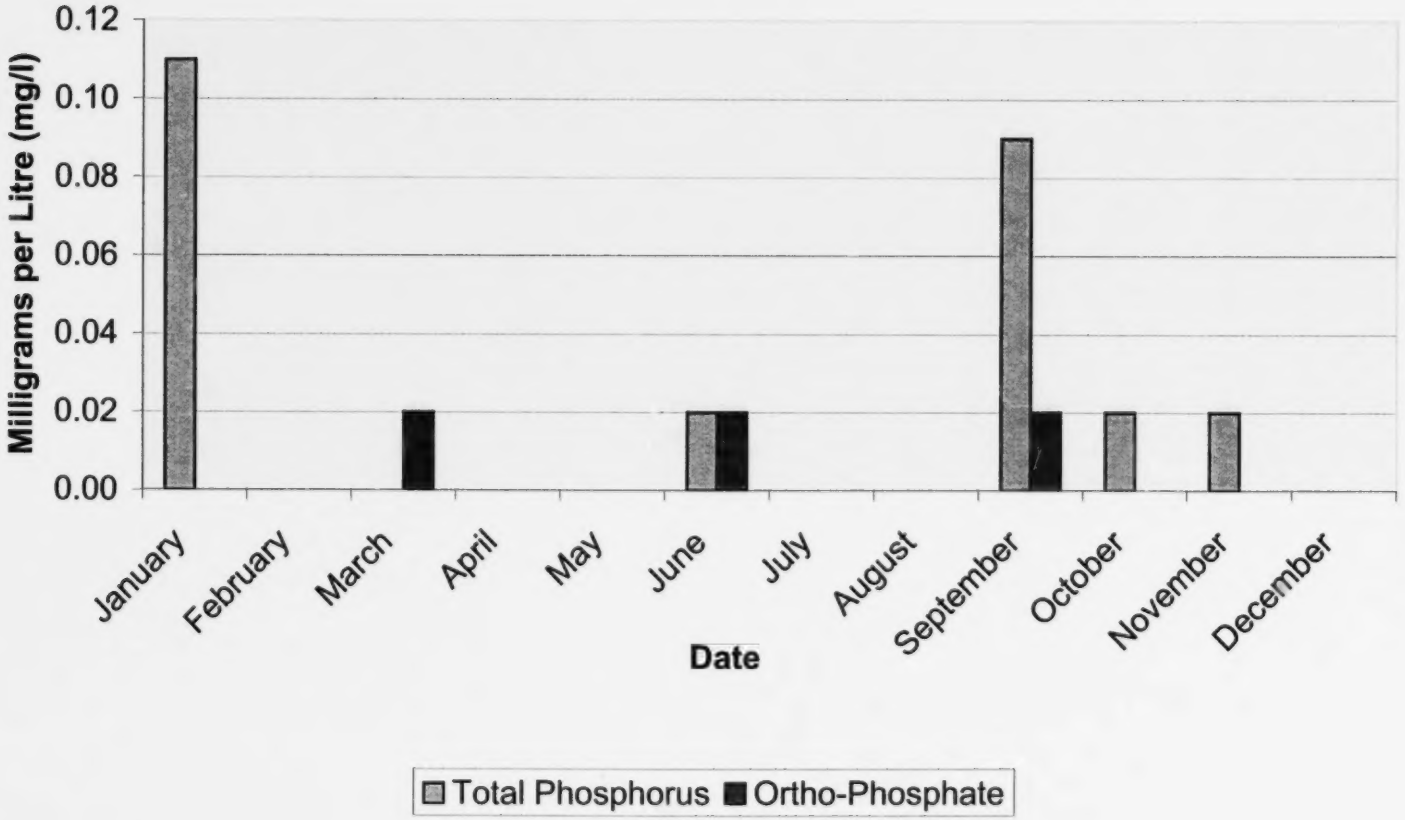
No Sample Collected in September for Upstream Total Phosphorus

Data for this table was obtained from the Excel Workbook "MOE Data 2006.xls", spreadsheet "Ok River".

Upstream Okanagan River Channel Monthly Average Total Phosphorus & Ortho-Phosphate levels
City of Penticton Advanced Wastewater Treatment Plant 2006



Downstream Okanagan River Channel Monthly Average Total Phosphorus & Ortho-Phosphate levels
City of Penticton Advanced Wastewater Treatment Plant 2006



Appendix B.3.

Ammonia, Total Kjeldahl Nitrogen and Nitrate + Nitrite Data

Monthly Average Ammonia, Total Kjeldahl Nitrogen and Nitrate + Nitrite; Influent and Effluent
City of Penticton Advanced Wastewater Treatment Plant 2006

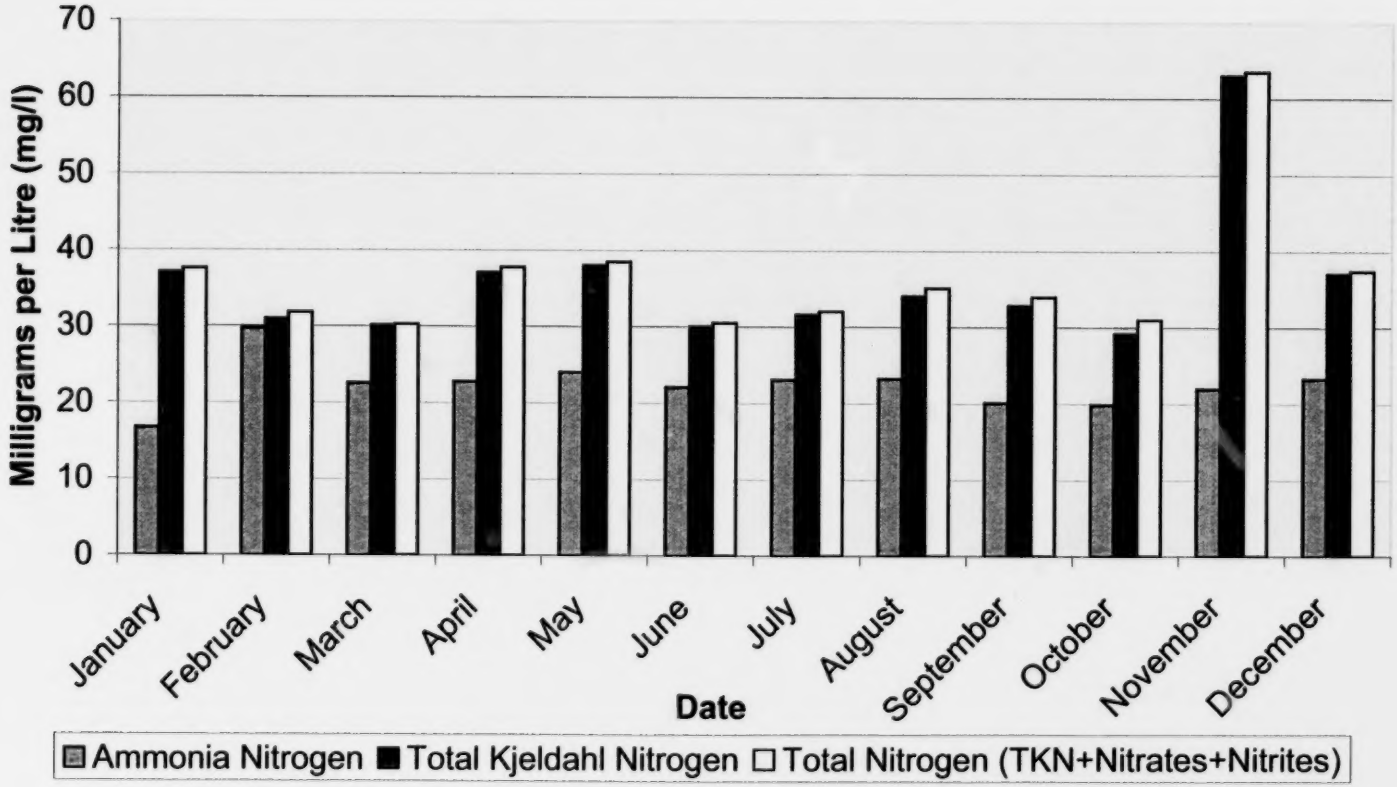
Date	Influent												Effluent											Reduction Efficiency
	Ammonia (NH_3) as N			Total Kjeldahl Nitrogen (TKN) as N			Nitrate/Nitrite ($NO_3^- + NO_2^-$) as N			Total Nitrogen [1] ($TKN + NO_3^- + NO_2^-$)			Ammonia (NH_3) as N			Total Kjeldahl Nitrogen (TKN) as N			Nitrate/Nitrite ($NO_3^- + NO_2^-$) as N			Total Nitrogen [1] ($TKN + NO_3^- + NO_2^-$)		Permit Annual Average Total Nitrogen (Yearly Average) [2]	Total N
	Average mg/L	Std Dev.	n	Average mg/L	Std Dev.	n	Average mg/L	Std Dev.	n	Average mg/L	Std Dev.	kgs / month	Average mg/L	Std Dev.	n	Average mg/L	Std Dev.	n	Average mg/L	Std Dev.	n	Average mg/L	kgs / month	mg/l	%
January	16.7	9.7	4	37.0	0.0	1	0.5	0.3	5	37.5	0.3	15151	0.23	0.29	14	1.62	0.52	4	3.97	0.87	15	5.6	2112	6.0	86.1
February	29.7	0.0	1	31.0	2.5	3	0.8	0.4	3	31.8	2.6	11099	0.80	0.71	15	1.97	0.44	25	4.36	0.58	11	6.3	2109	6.0	81.0
March	22.5	1.3	3	30.1	0.9	2	0.2	0.1	3	30.3	0.9	12147	0.80	0.42	20	2.15	0.22	31	5.32	0.81	17	7.5	2953	6.0	75.7
April	22.8	2.9	8	37.0	0.0	1	0.7	0.4	5	37.7	0.4	15445	1.18	1.59	19	1.83	0.26	30	5.34	0.56	16	7.2	2481	6.0	83.9
May	24.0	1.1	7	38.0	0.0	1	0.5	0.2	6	38.5	0.2	17543	0.54	0.63	15	1.85	0.36	31	5.98	0.88	18	7.8	2539	6.0	85.5
June	22.0	2.2	6	30.0	0.0	1	0.5	0.1	5	30.5	0.1	13565	0.24	0.10	15	1.32	0.22	30	5.50	0.71	16	6.8	1940	6.0	85.7
July	23.1	2.8	6	31.6	0.0	1	0.4	0.1	2	32.0	0.1	15278	0.31	0.18	14	1.32	0.27	31	5.24	0.60	17	6.6	1990	6.0	87.0
August	23.2	3.0	5	34.0	0.0	1	1.1	0.2	3	35.1	0.2	16659	0.29	0.07	15	1.23	0.10	31	5.61	0.76	18	6.8	1618	6.0	90.3
September	20.1	2.4	5	32.8	0.0	1	1.1	0.3	3	33.9	0.3	14438	0.21	0.08	13	1.11	0.05	30	5.57	0.39	15	6.7	2079	6.0	85.6
October	19.8	2.4	4	29.2	0.0	1	1.8	0.7	2	31.0	0.7	12943	0.19	0.11	13	1.00	0.16	31	6.05	0.41	31	7.1	2267	6.0	82.5
November	21.9	4.4	5	63.0	0.0	1	0.5	0.6	3	63.5	0.6	24152	0.37	0.36	14	1.16	0.34	30	6.32	0.72	13	7.5	2753	6.0	88.6
December	23.2	0.7	3	37.0	0.0	1	0.4	0.0	1	37.4	0.0	14733	0.50	0.55	13	1.55	0.46	31	5.60	0.84	12	7.1	2559	6.0	82.6
Annual	22.0	2.5	4.8	34.2	0.8	29.1	0.7	0.2	3.4	36.6	0.7	15263	0.50	0.43	15.0	1.49	0.1	27.9	5.4	0.2	16.6	6.9	2283		85.0
Annual Total			57			15			41			**183153**			180			335			199		**27399**		

[1] Influent Total Nitrogen (mg/L) = Monthly Average TKN + Monthly Average $NO_3^- + NO_2^-$, whereas Effluent Total Nitrogen (mg/L) = Average(Daily TKN + Daily $NO_3^- + NO_2^-$)

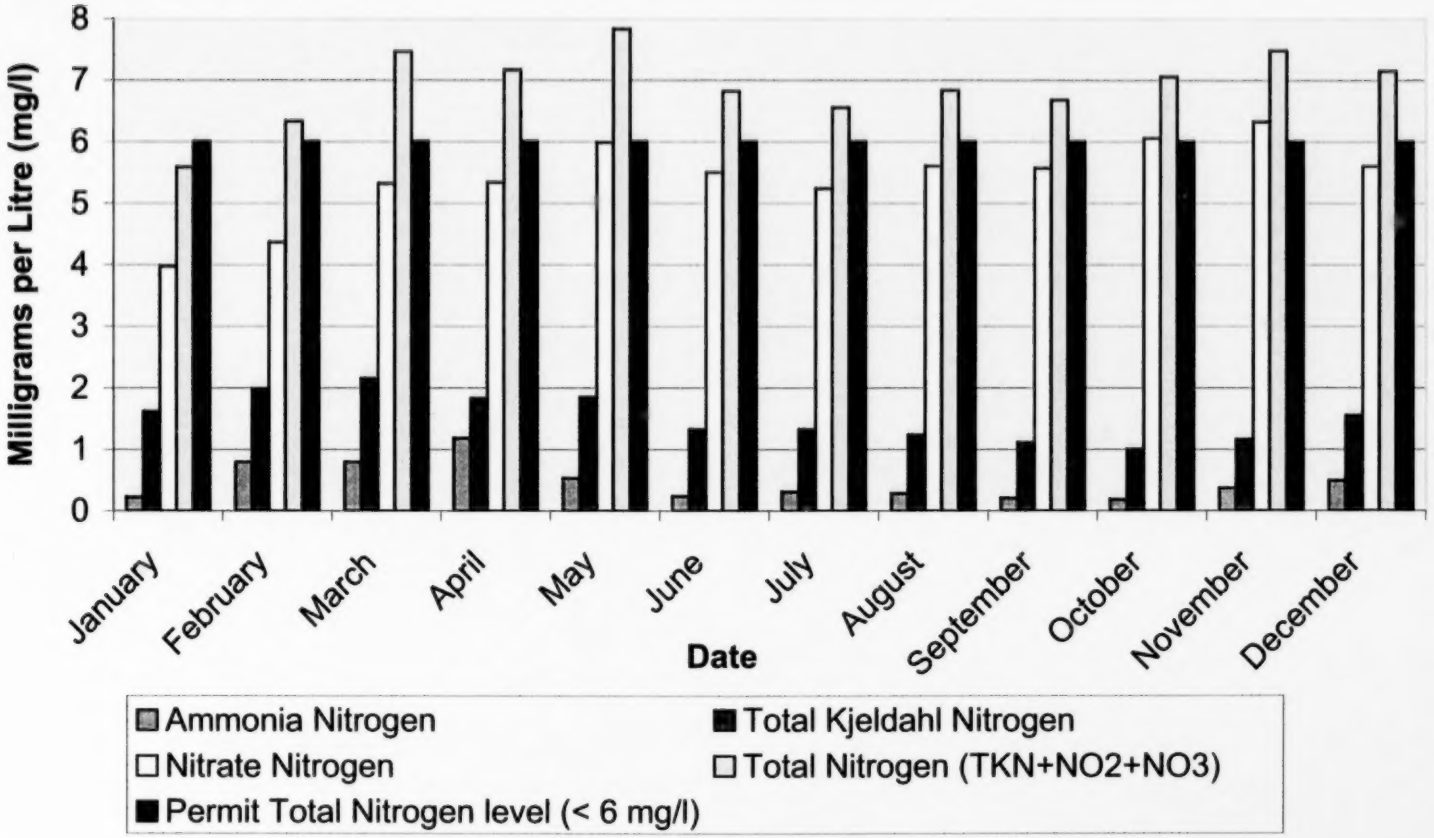
[2] Permit Values Originate From the BC Ministry of Water, Land and Air Protection's Operational Certificate for the Penticton Advanced Wastewater Treatment Plant (PE 12212) Section 1.5.1

Data for this table was obtained from the Excel Workbook "MOE Data 2006.xls", spreadsheets "Influent" & "Effluent".

Monthly Average Influent Ammonia Nitrogen,
Total Kjeldahl Nitrogen, & Total Nitrogen levels
City of Penticton Advanced Wastewater Treatment Plant 2006



Monthly Average Effluent Ammonia Nitrogen, Total Kjeldahl Nitrogen, Nitrate Nitrogen & Total Nitrogen levels Compared to Permit City of Penticton Advanced Wastewater Treatment Plant 2006



Monthly Ammonia, Total Kjeldahl Nitrogen and Nitrate + Nitrite; Okanagan River
City of Penticton Advanced Wastewater Treatment Plant 2006

Date	Upstream								Downstream							
	Ammonia [2] NH_3 as N		Total Kjeldahl Nitrogen as N		Nitrate/Nitrite ($NO_3^- + NO_2^-$) as N		Total Nitrogen [1] ($TKN + NO_3^- + NO_2^-$)		Ammonia [2] NH_3 as N		Total Kjeldahl Nitrogen as N		Nitrate/Nitrite ($NO_3^- + NO_2^-$) as N		Total Nitrogen [1] ($TKN + NO_3^- + NO_2^-$)	
	mg/L	n	mg/L	n	mg/L	n	mg/L	n	mg/L	n	mg/L	n	mg/L	n	mg/L	n
January	<0.02	1	0.24	1	0.03	1	0.27	1	<0.02	1	0.38	1	0.05	1	0.43	1
February	<0.02	1	0.26	1	0.02	1	0.28	1	<0.02	1	0.25	1	0.02	1	0.27	1
March	<0.02	1	0.24	1	0.02	1	0.26	1	<0.02	1	0.22	1	<0.02	1	0.22	1
April	<0.02	1	0.26	1	<0.02	1	0.26	1	0.02	1	0.12	1	0.04	1	0.16	1
May	0.03	1	0.20	1	0.02	1	0.22	1	<0.02	1	0.24	1	<0.02	1	0.24	1
June	0.06	1	0.20	1	0.03	1	0.23	1	0.05	1	0.20	1	0.03	1	0.23	1
July	0.04	1	0.11	1	0.03	1	0.14	1	0.05	1	0.11	1	0.02	1	0.13	1
August	0.04	1	0.26	1	0.02	1	0.28	1	0.06	1	0.30	1	0.02	1	0.32	1
September	0.02	1	0.27	1	<0.02	1	0.27	1	0.02	1	0.30	1	<0.02	1	0.30	1
October	0.03	1	0.27	1	<0.02	1	0.27	1	0.05	1	0.28	1	<0.02	1	0.28	1
November	0.03	1	0.25	1	0.05	1	0.30	1	0.02	1	0.29	1	0.07	1	0.36	1
December	0.02	1	0.20	1	0.02	1	0.22	1	0.02	1	0.32	1	0.03	1	0.35	1
Annual [1]	0.02	1	0.23	1	0.02	1	0.25	1	0.02	1	0.25	1	0.02	1	0.27	1
Annual Total		12		12		12		12		12		12		12		12

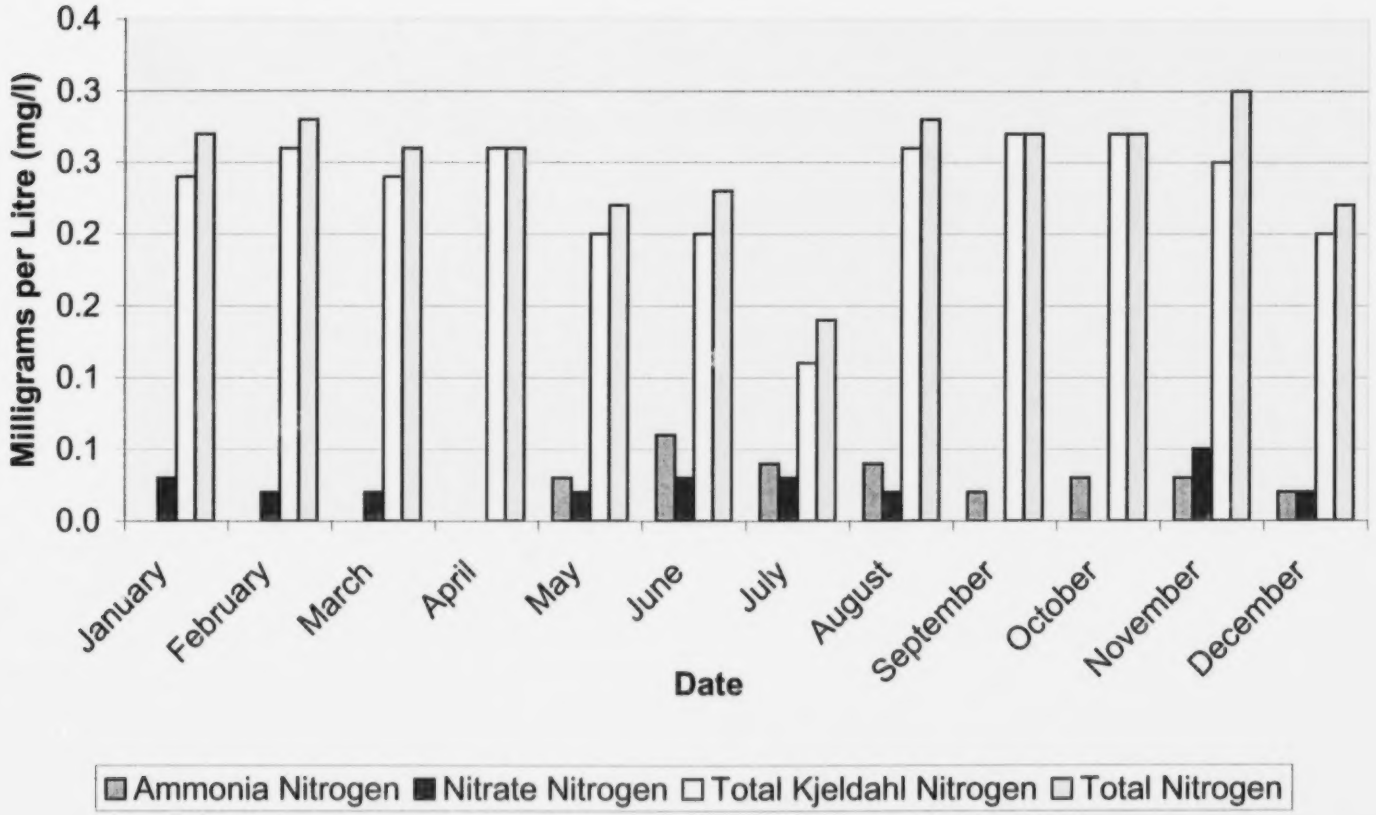
[1] Total Nitrogen (mg/L) = Monthly Average TKN + Monthly Average NO_3^- + NO_2^-

[2] Less than data values were included in the monthly & annual average calculations. They were assumed to be the same as the lowest detection limit (0.02 mg/l).

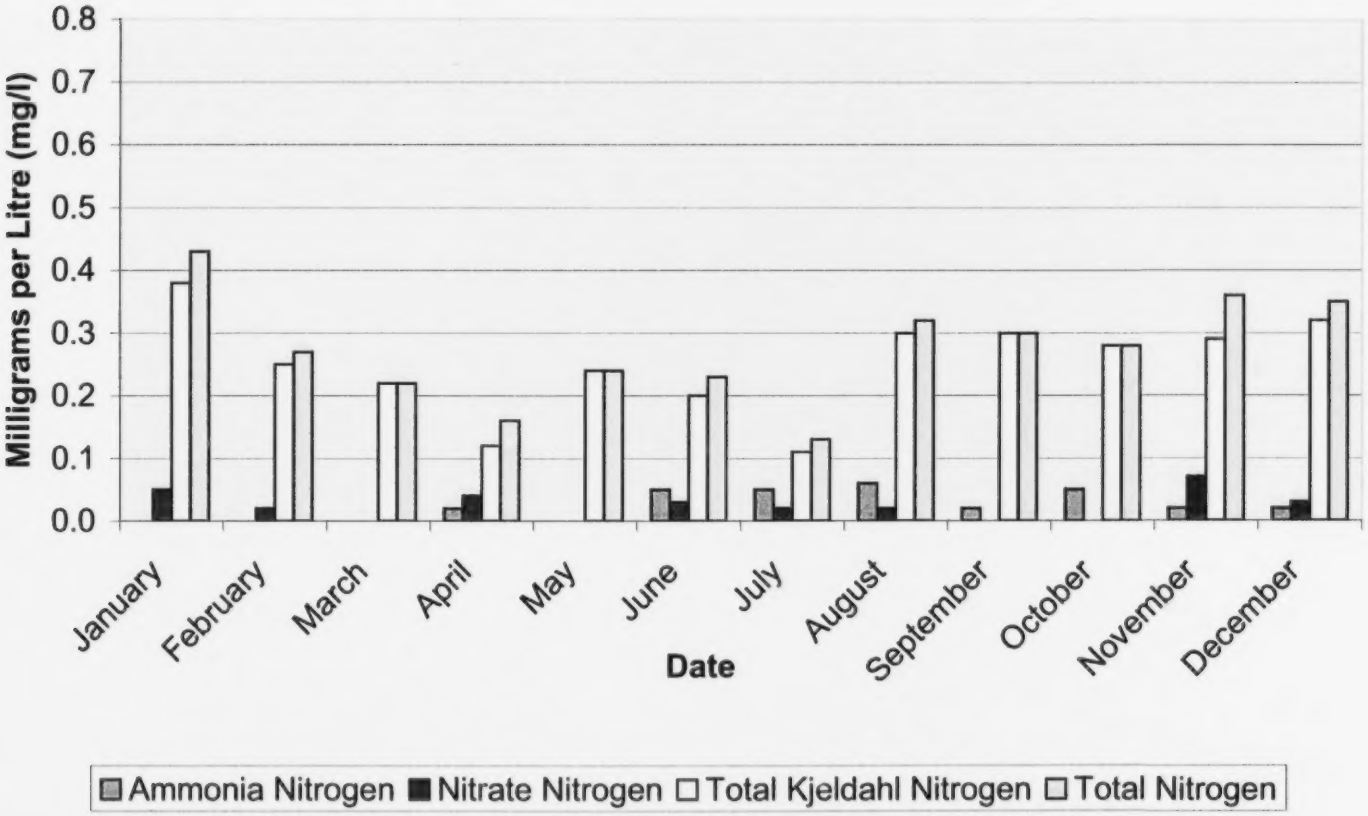
Upstream Sampling Location = East bank of Okanagan River from loading stairs at Coyote Cruises.
Downstream Sampling Location = West bank of Okanagan River from landing stairs upstream of Shingle Creek.

Data for this table was obtained from the Excel Workbook "MOE Data 2006.xls", spreadsheet "Ok River".

Upstream Okanagan River Channel Monthly Average Ammonia Nitrogen, Nitrate Nitrogen, Total Kjeldahl Nitrogen & Total Nitrogen levels City of Penticton Advanced Wastewater Treatment Plant 2006



Downstream Okanagan River Channel Monthly Average Ammonia Nitrogen, Nitrate Nitrogen, Total Kjeldahl Nitrogen & Total Nitrogen levels City of Penticton Advanced Wastewater Treatment Plant 2006



Appendix B.4.

Total Chlorine Data

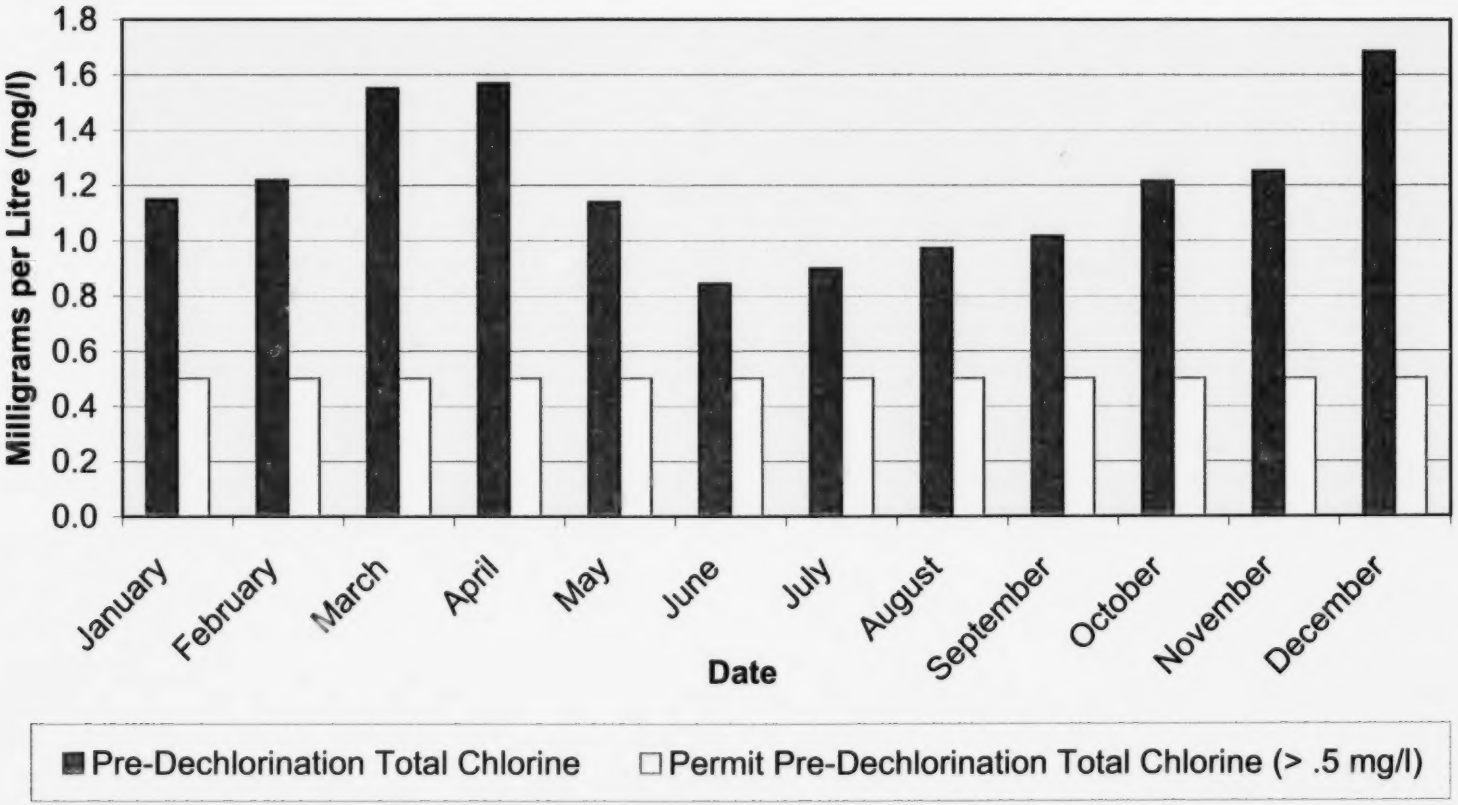
Monthly Average Total Chlorine Residual & Chlorine and Sulfur Dioxide Usage
City of Penticton Advanced Wastewater Treatment Plant 2006

Date	Wastewater Profile										Monthly Usage			
	End of Contact Tank				Effluent				Irrigation		Chlorine	Sulphur Dioxide	Chlorine	Sulphur Dioxide
	Average mg/L [1]	Std Dev.	n	Permit Total Chlorine Residual > .5 mg/l [2]	Average mg/L [1]	Std Dev.	n	Permit Total Chlorine Residual < 0 mg/l [2]	Average mg/L [1]	Permit Total Chlorine Residual > 1.0 mg/l [3]	kgs [1] day	kgs [1] day	kgs month	kgs month
January	1.15	0.30	31	0.5	0.02	0.10	31	0			60	19	1867	588
February	1.22	0.26	28	0.5	0.03	0.12	28	0			48	20	1353	555
March	1.55	0.31	31	0.5	0.00	0.01	31	0			48	26	1492	804
April	1.57	0.49	30	0.5	0.00	0.00	30	0	1.60	1.0	61	24	1843	716
May	1.14	0.19	31	0.5	0.00	0.00	31	0	1.60	1.0	60	24	1856	734
June	0.84	0.27	30	0.5	0.01	0.05	30	0	1.60	1.0	66	15	1982	452
July	0.90	0.22	31	0.5	0.02	0.09	31	0	2.30	1.0	84	12	2596	358
August	0.97	0.41	31	0.5	0.00	0.01	31	0	2.30	1.0	97	17	3008	536
September	1.02	0.26	30	0.5	0.00	0.00	30	0	2.10	1.0	86	17	2582	508
October	1.22	0.46	31	0.5	0.00	0.01	31	0	2.20	1.0	80	23	2490	720
November	1.25	0.58	30	0.5	0.00	0.00	30	0			75	28	2256	828
December	1.68	0.60	31	0.5	0.02	0.05	31	0			60	25	1858	787
Annual	**1.21**	**0.36**	**30.4**		**0.008**	**0.04**	**30.4**		**1.96**		**69**	**21**	**2099**	**632**
Annual Total			**365**				**365**						**25183**	**7586**

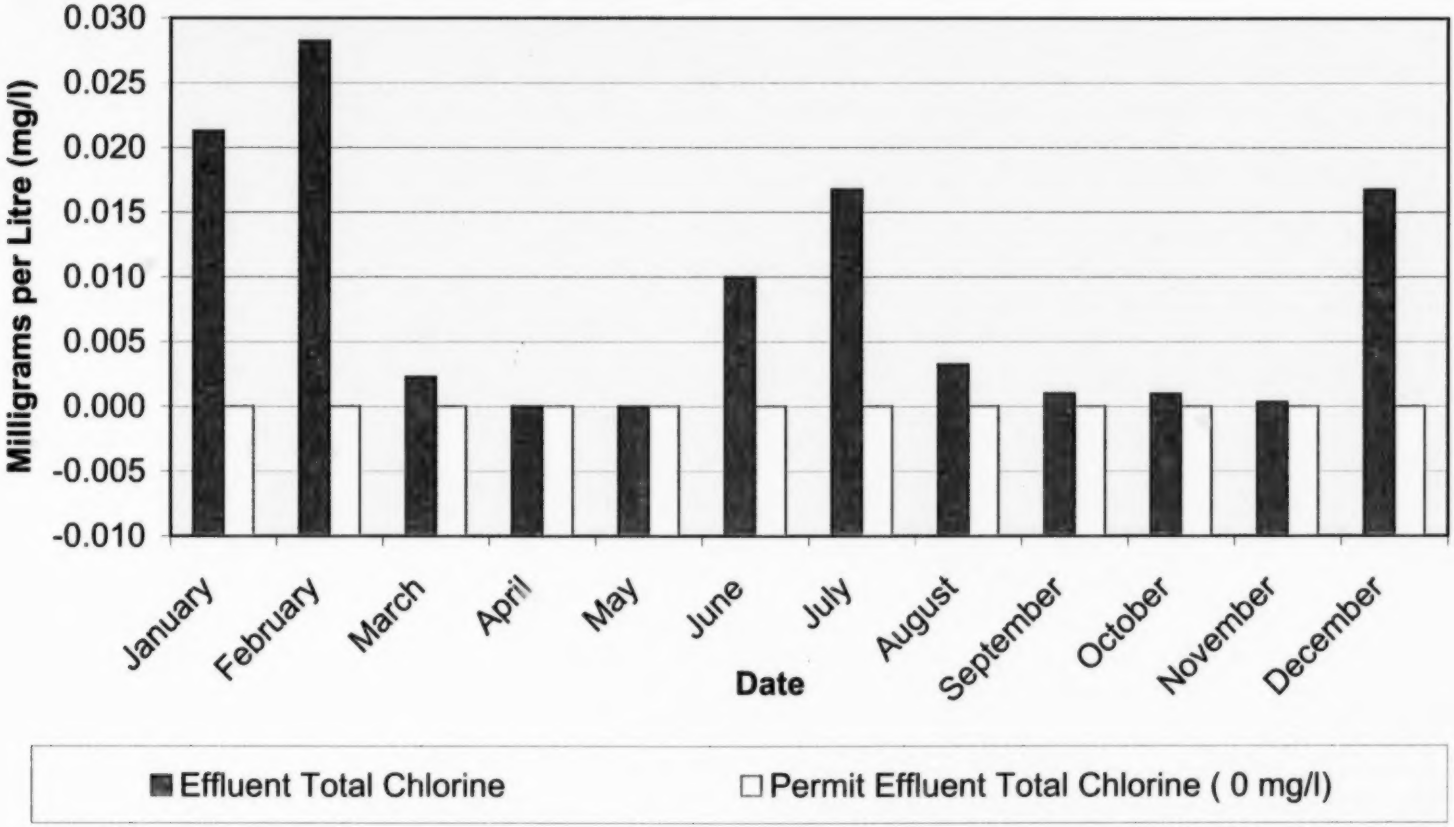
[1] Monthly Averages
[2] Permit Values Originate From the BC Ministry of Water, Land and Air Protection's Operational Certificate for the Penticton Advanced Wastewater Treatment Plant (PE 12212) Section 4.1.1
[3] Permit Values Originate From the BC Ministry of Water, Land and Air Protection's Operational Certificate for the Penticton Advanced Wastewater Treatment Plant (PE 12212) Section 5.1.1

Data for this table was obtained from the Excel Workbook "Yearly2006.xls.", monthly reports

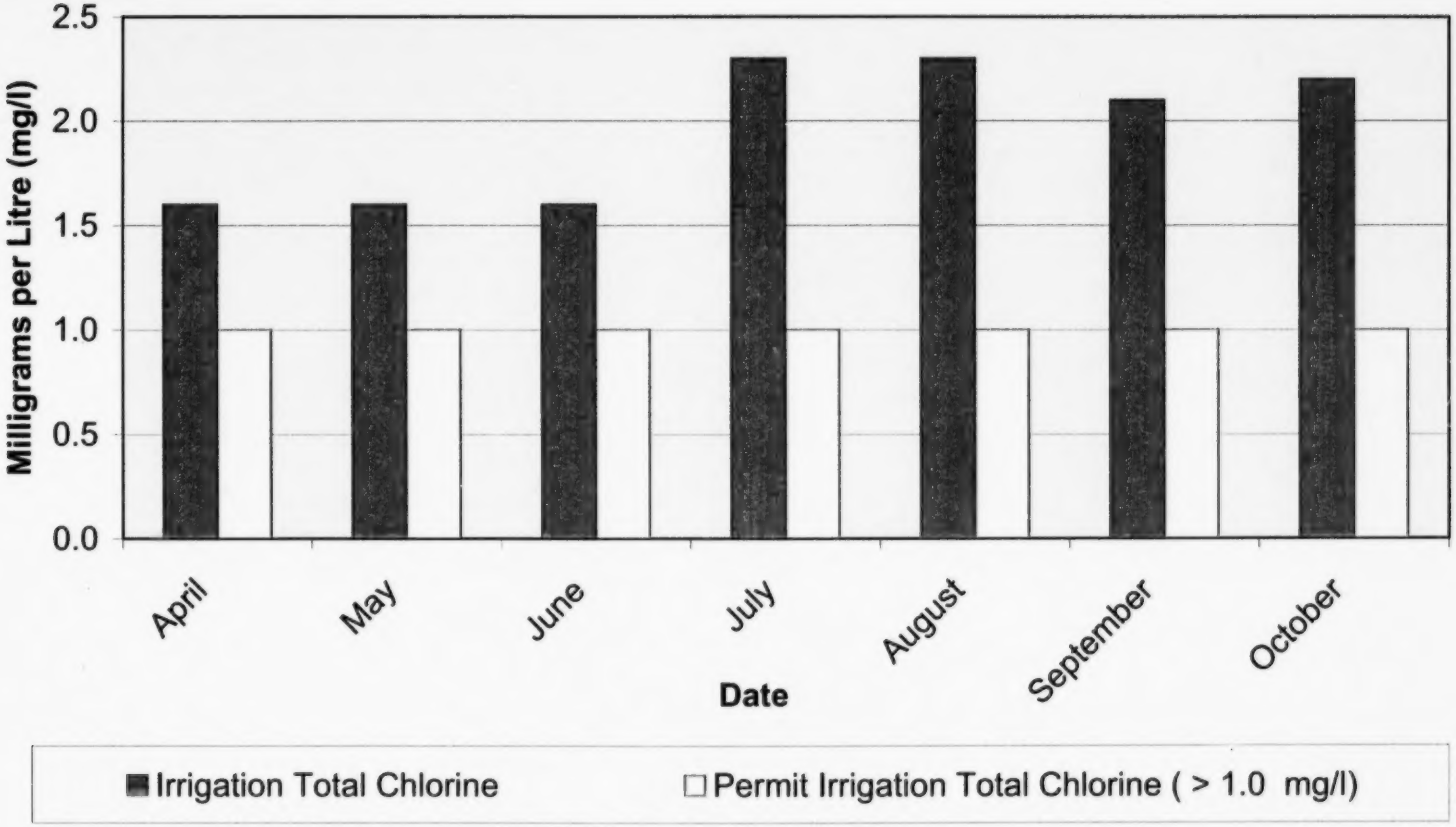
Chlorine Contact Tank Pre-Dechlorination Total Chlorine level Compared to Permit
City of Penticton Advanced Wastewater Treatment Plant 2006



Effluent Total Chlorine level Compared to Permit
City of Penticton Advanced Wastewater Treatment Plant 2006



Irrigation Total Chlorine level Compared to Permit
City of Penticton Advanced Wastewater Treatment Plant 2006



Appendix B.5.

pH Data

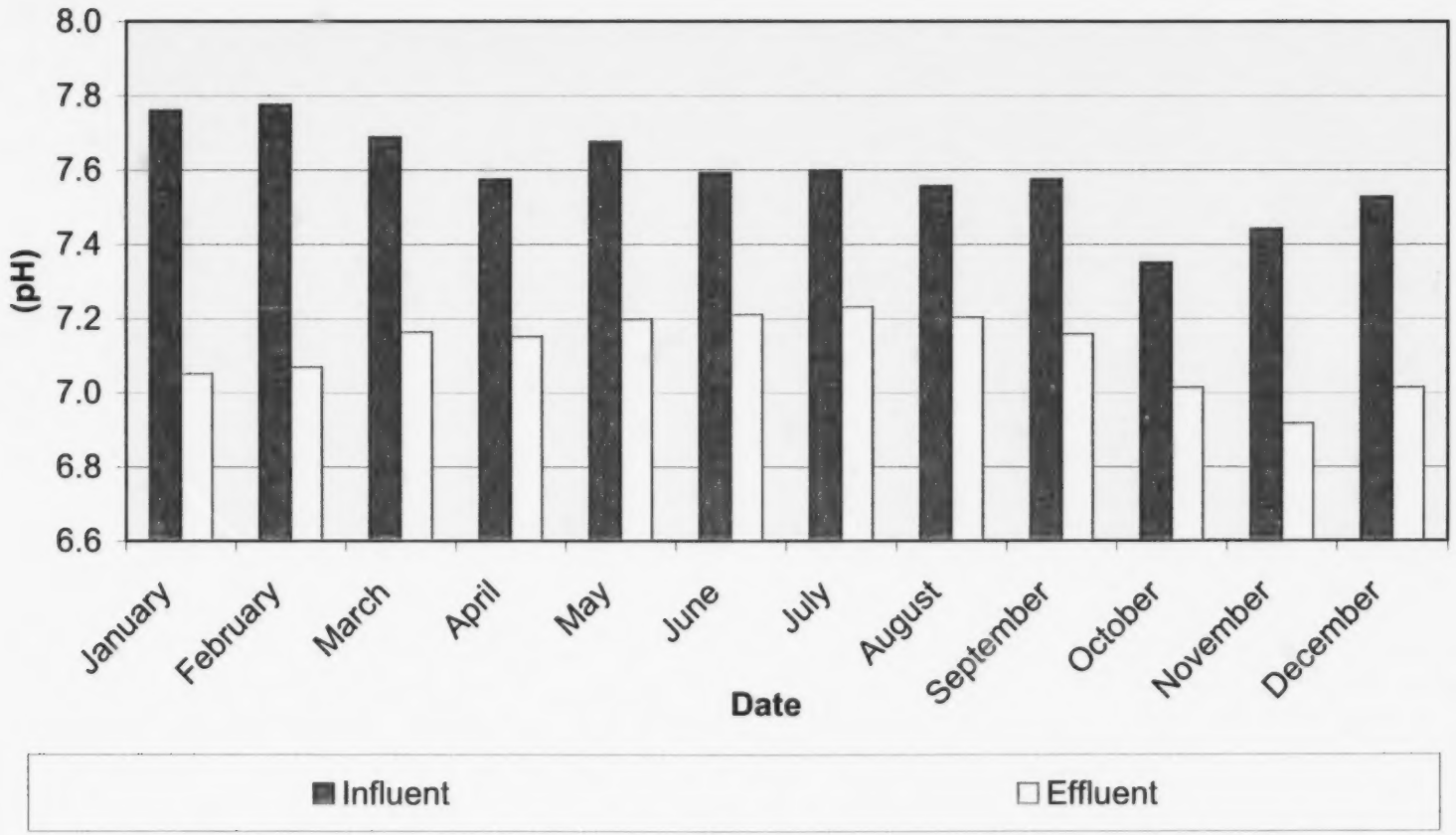
Monthly pH; Influent, Effluent and Okanagan River
City of Penticton Advanced Wastewater Treatment Plant 2006

	Wastewater Profile						Okanagan River		Okanagan River	
	Influent			Effluent			Upstream		Downstream	
	Average pH	Std Dev.	n	Average pH	Std Dev.	n	pH	n	pH	n
January	7.8	0.1	10	7.1	0.1	31.0	8.2	1	8.2	1
February	7.8	0.1	8	7.1	0.1	28.0	8.4	1	8.1	1
March	7.7	0.1	14	7.2	0.1	31.0	8.4	1	8.5	1
April	7.6	0.2	13	7.2	0.1	30.0	8.3	1	8.3	1
May	7.7	0.1	13	7.2	0.0	31.0	8.6	1	8.7	1
June	7.6	0.3	12	7.2	0.2	30.0	8.8	1	8.9	1
July	7.6	0.1	12	7.2	0.3	29.0	8.8	1	8.8	1
August	7.6	0.1	12	7.2	0.2	31.0	8.8	1	8.7	1
September	7.6	0.1	11	7.2	0.1	29.0	8.7	1	8.8	1
October	7.4	0.1	6	7.0	0.1	31.0	8.6	1	8.6	1
November	7.4	0.1	5	6.9	0.1	30.0	8.4	1	8.3	1
December	7.5	0.1	3	7.0	0.1	31.0	8.3	1	8.3	1
Annual	**7.6**	**0.1**	**10**	**7.1**	**0.1**	**30.2**	**8.5**	**1.0**	**8.5**	**1.0**
Annual Total			**119**			**362**		**12**		**12**

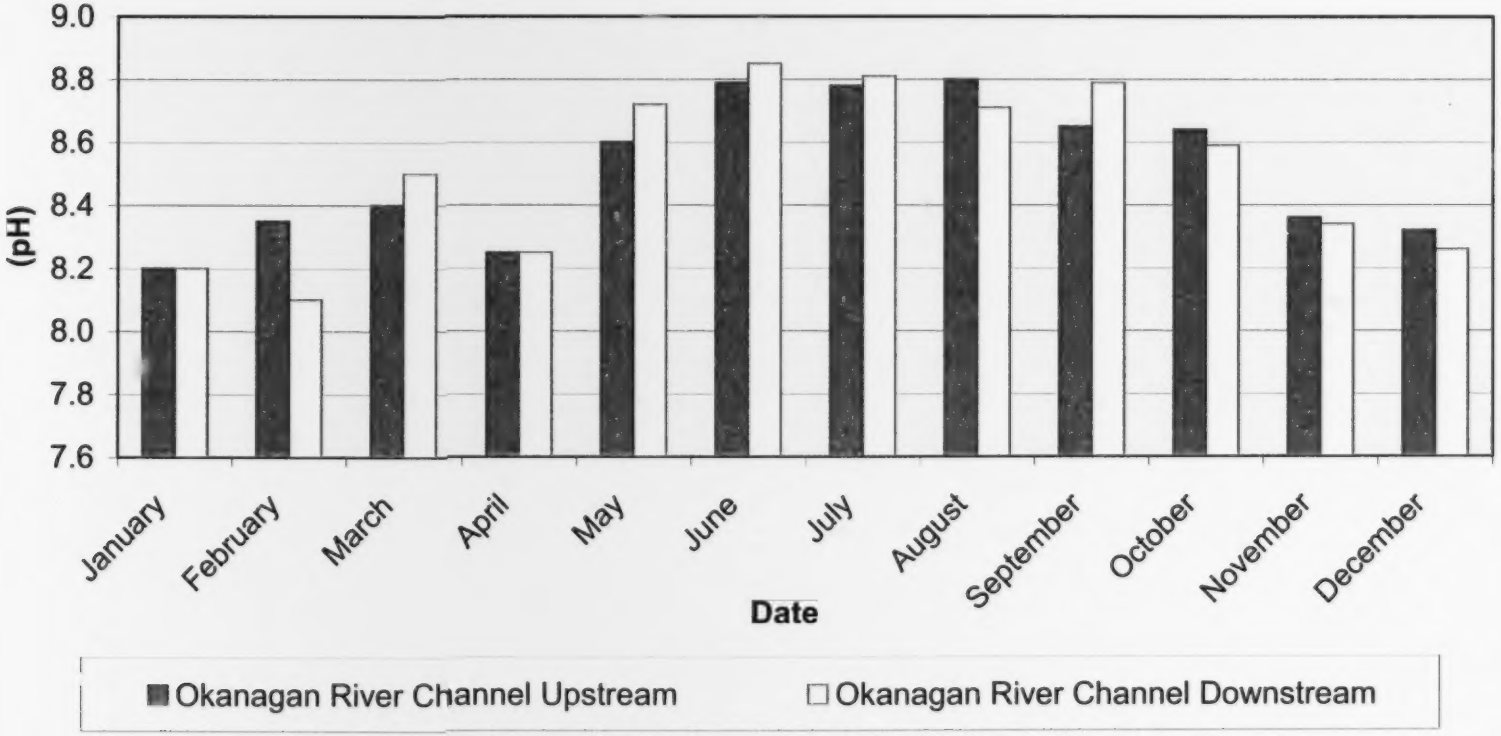
Upstream Sampling Location = East bank of Okanagan River from loading stairs at Coyote Cruises.
Downstream Sampling Location = West bank of Okanagan River from landing stairs upstream of Shingle Creek.

Data for this table was obtained from the Excel Workbook "MOE Data 2006.xls", spreadsheets "Influent", "Effluent", & "Ok River".

Influent & Effluent pH levels
City of Penticton Advanced Wastewater Treatment Plant 2006



Okanagan River Channel Upstream & Downstream pH levels
City of Penticton Advanced Wastewater Treatment Plant 2006



Appendix B.6.

BOD & COD Data

Monthly 5-Day Biochemical Oxygen Demand (BOD_5) and Monthly Average Chemical Oxygen Demand (COD); Influent and Effluent
City of Penticton Advanced Wastewater Treatment Plant 2006

Date	Influent					Effluent [1]						Reduction Efficiency	
	BOD_5		COD [2]			BOD_5			COD [2]			BOD_5	COD
	Average mg/L	n	Average mg/L	Std Dev.	n	Average mg/L	n	Permit BOD < 10.0 mg/l [3]	Average mg/L	Std Dev.	n	(%)	(%)
January	235	2	269	100	10	<5	1	10	24.9	8.9	31	99.1	90.8
February	228	2	385	122	8	<5	1	10	24.2	4.4	21	99.1	93.7
March	237	1	302	57	9	<5	1	10	20.7	1.8	30	99.2	93.2
April	212	1	318	66	12	<5	1	10	26.5	12.8	30	99.1	91.7
May	213	2	305	39	14	<5	1	10	30.4	13.0	31	99.1	90.0
June	308	2	284	64	12	<5	1	10	30.0	10.1	30	99.4	89.4
July	333	1	316	74	11	<5	1	10	33.6	13.6	31	99.4	89.3
August	269	2	267	76	9	<5	1	10	32.2	14.3	31	99.3	88.0
September	236	2	312	73	9	<5	1	10	75.4	26.8	30	99.2	75.9
October	216	2	349	66	3	<5	1	10	66.0	19.6	29	99.1	81.1
November	295	1	558	344	3	<5	1	10	74.3	28.8	29	99.3	86.7
December	187	2	329	62	3	<5	1	10	50.6	24.6	31	98.9	84.6
Annual	**247**	**1.7**	**315**	**95**	**8.6**	**<5**	**1.0**		**41**	**14.9**	**29.5**	**99.2**	**87.9**
Annual Total		**20**			**103**		**12**				**354**		

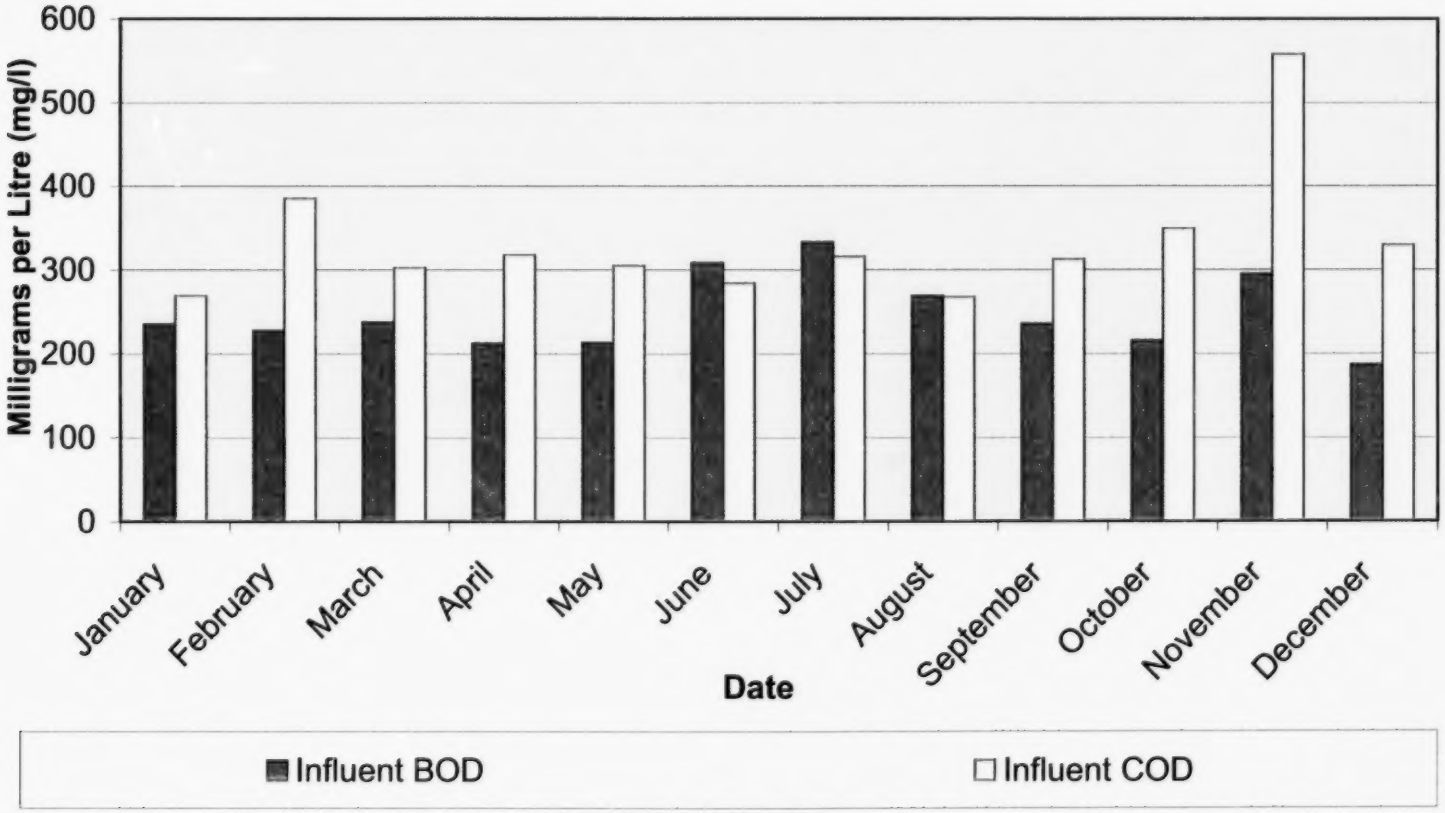
[1] Less than data values were included in the monthly & annual average calculations. They were assumed to be the same as the lowest detection limit (2 mg/l).
[2] COD methodology Manganese colorimetric method developed by Hach.
[3] Permit Value Originates From the BC Ministry of Water, Land and Air Protection's Operational Certificate for the Penticton Advanced Wastewater Treatment Plant (PE 12212) Section 1.5.1

Data for this table was obtained from the Excel Workbook "MOE Data 2006.xls", spreadsheets "Influent" & "Effluent".

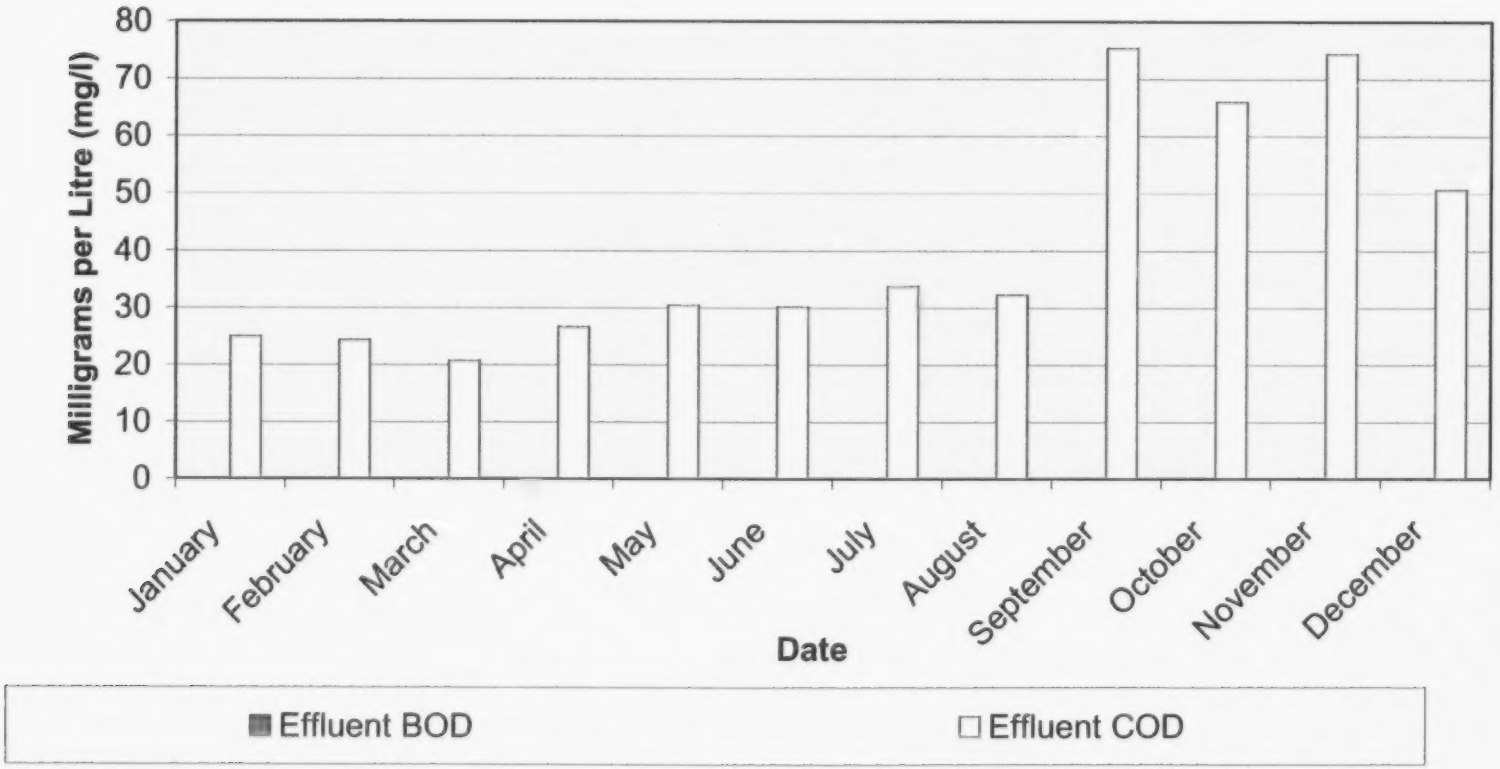
TBOD Loading from Annual Averaged 2006 Data
Influent = 125,138 kg/yr. Effluent = 792 kg/yr. Loading Reduction = 99.4%

COD Loading from Annual Averaged 2006 Data
Influent = 159,254 kg/yr. Effluent = 16,193 kg/yr. Loading Reduction = 89.8%

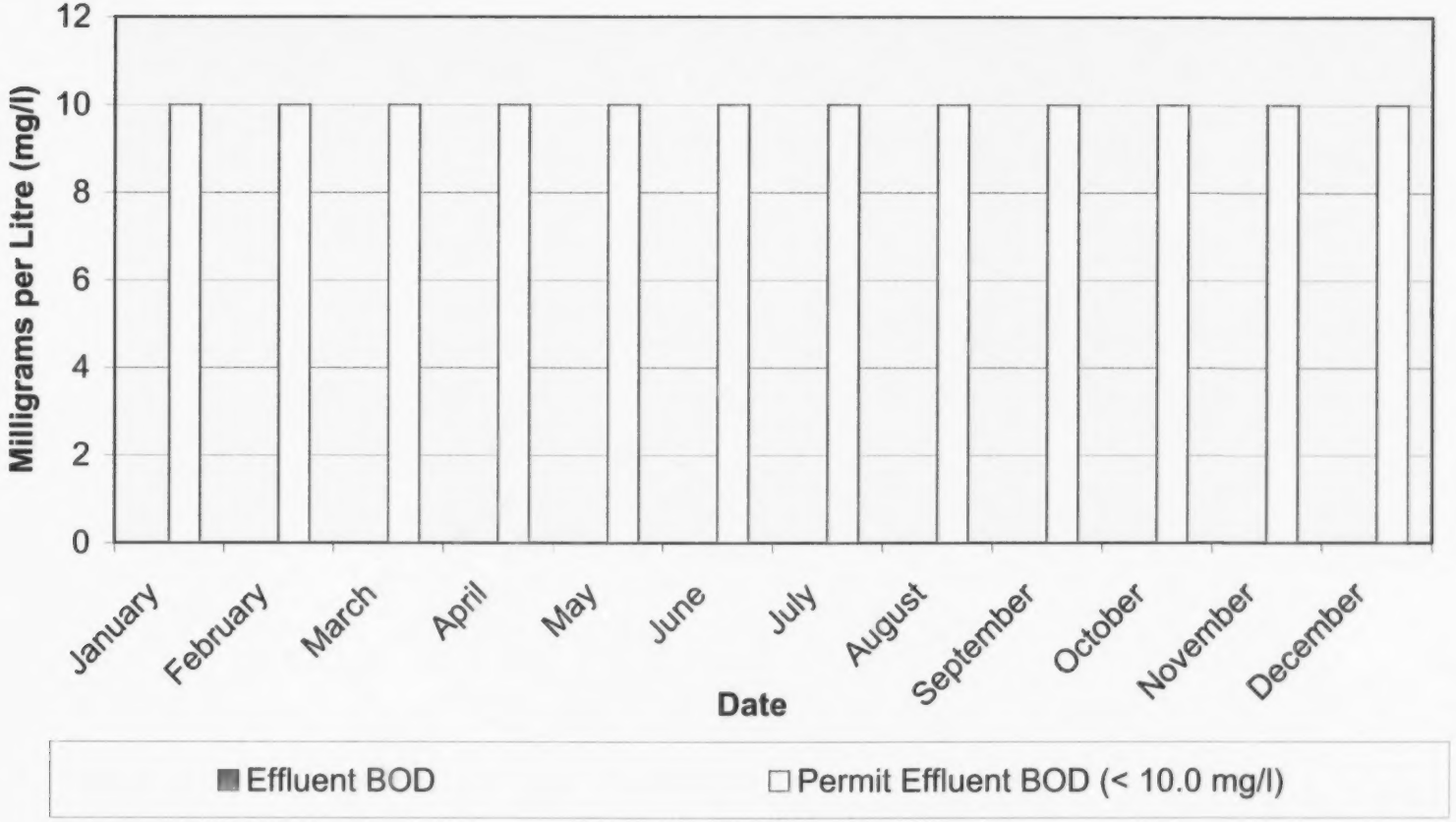
Influent Biochemical Oxygen Demand & Chemical Oxygen Demand levels
City of Penticton Advanced Wastewater Treatment Plant 2006



Effluent Biochemical Oxygen Demand & Chemical Oxygen Demand levels
City of Penticton Advanced Wastewater Treatment Plant 2006



Effluent Biochemical Oxygen Demand level Compared with Permit
City of Penticton Advanced Wastewater Treatment Plant 2006



Appendix B.7.

Total Suspended Solids Data

Monthly Total Suspended Solids; Influent, Effluent and Okanagan River
City of Penticton Advanced Wastewater Treatment Plant 2006

Date	Influent			Effluent				Reduction Efficiency	Okanagan River			
	Total Suspended Solids (TSS)			Total Suspended Solids (TSS) [1]					Upstream [1]		Downstream [1]	
	Average mg/L	Std Dev.	n	Average mg/L	Std Dev.	n	Permit TSS < 10.0 mg/l [2]	TSS	TSS mg/L	n	TSS mg/L	n
January	240	0	1	0.2	0.2	2	10	99.9	0.4	1	0.4	1
February	163	0	1	0.4	0.0	2	10	99.8	0.4	1	0.4	1
March	194	0	1	0.4	0.0	1	10	99.8	1.0	1	1.2	1
April	250	0	1	0.4	0.0	1	10	99.8	0.4	1	0.4	1
May	268	0	1	0.4	0.0	1	10	99.9	0.6	1	0.4	1
June	214	0	1	0.4	0.0	1	10	99.8	3.4	1	0.4	1
July	123	0	1	1.6	0.0	1	10	99.7	0.4	1	0.4	1
August	94	0	1	0.4	0.0	1	10	99.6	12.0	1	4.0	1
September	184	0	1	0.4	0.0	1	10	99.8	0.4	1	8.0	1
October	228	0	1	4.0	0.0	1	10	99.8	6.0	1	22.0	1
November	790	0	1	0.4	0.0	1	10	99.9	6.6	1	4.2	1
December	520	0	1	0.4	0.0	1	10	99.9	6.0	1	4.0	1
Annual	**272**	**0**	**1.0**	**0.5**	**0.0**	**1.2**		**99.8**	**3.0**	**1**	**3.7**	**1**
Annual Total			**12**			**14**				**12**		**12**

[1] Less than data values were included in the monthly & annual average calculations. They were assumed to be the same as the lowest detection limit (0.4 mg/l).

[2] Permit Value Originates From the BC Ministry of Water, Land and Air Protection's Operational Certificate for the Penticton Advanced Wastewater Treatment Plant (PE 12212) Section 1.5.1

Upstream Sampling Location = East bank of Okanagan River from loading stairs at Coyote Cruises.
Downstream Sampling Location = West bank of Okanagan River from landing stairs upstream of Shingle Creek.

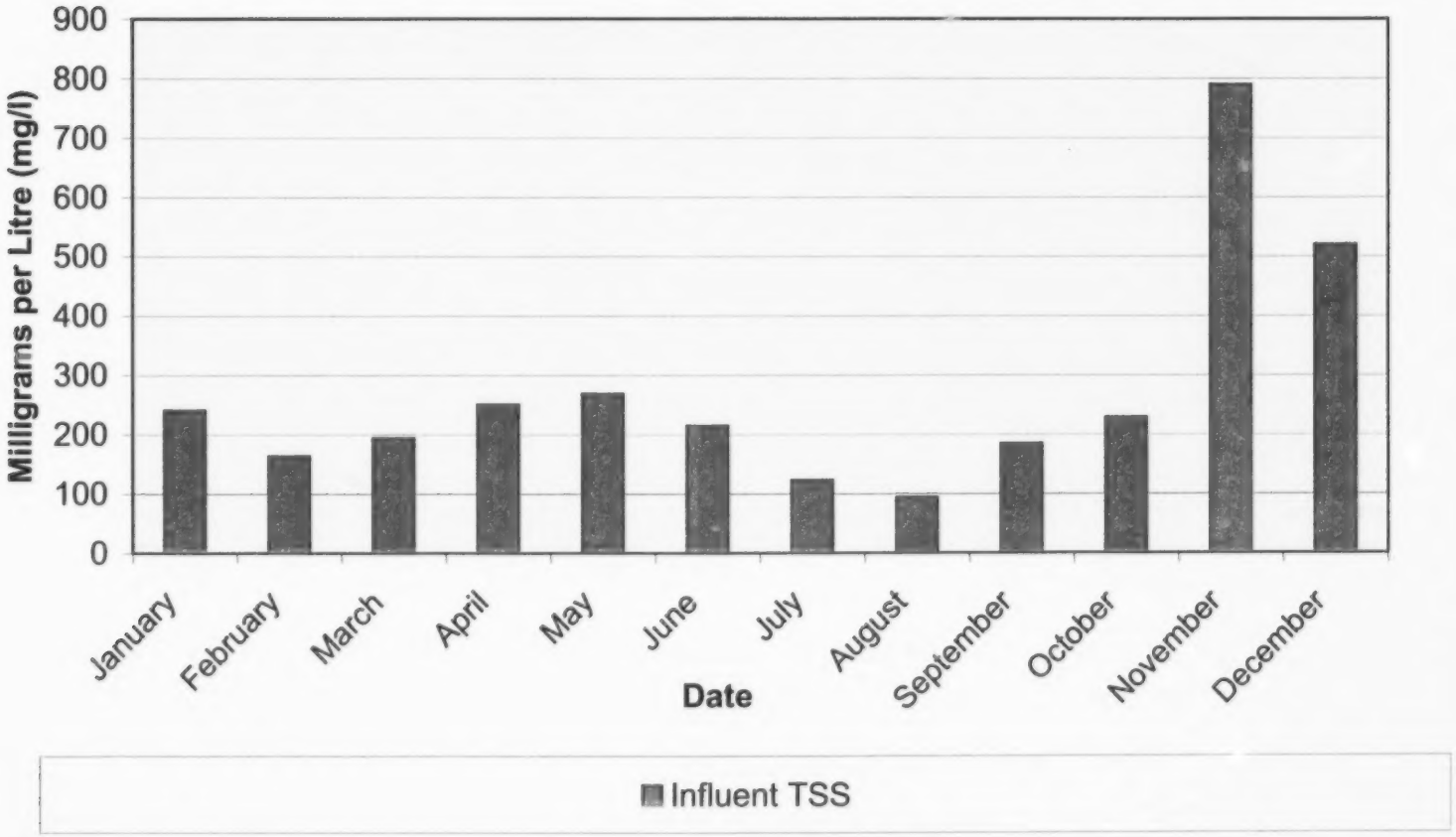
Data for this table was obtained from the Excel Workbook "MOE Data 2006.xls", spreadsheets "Influent", "Effluent", & "Ok River".

TSS Loading from Annual Averaged 2006 Data

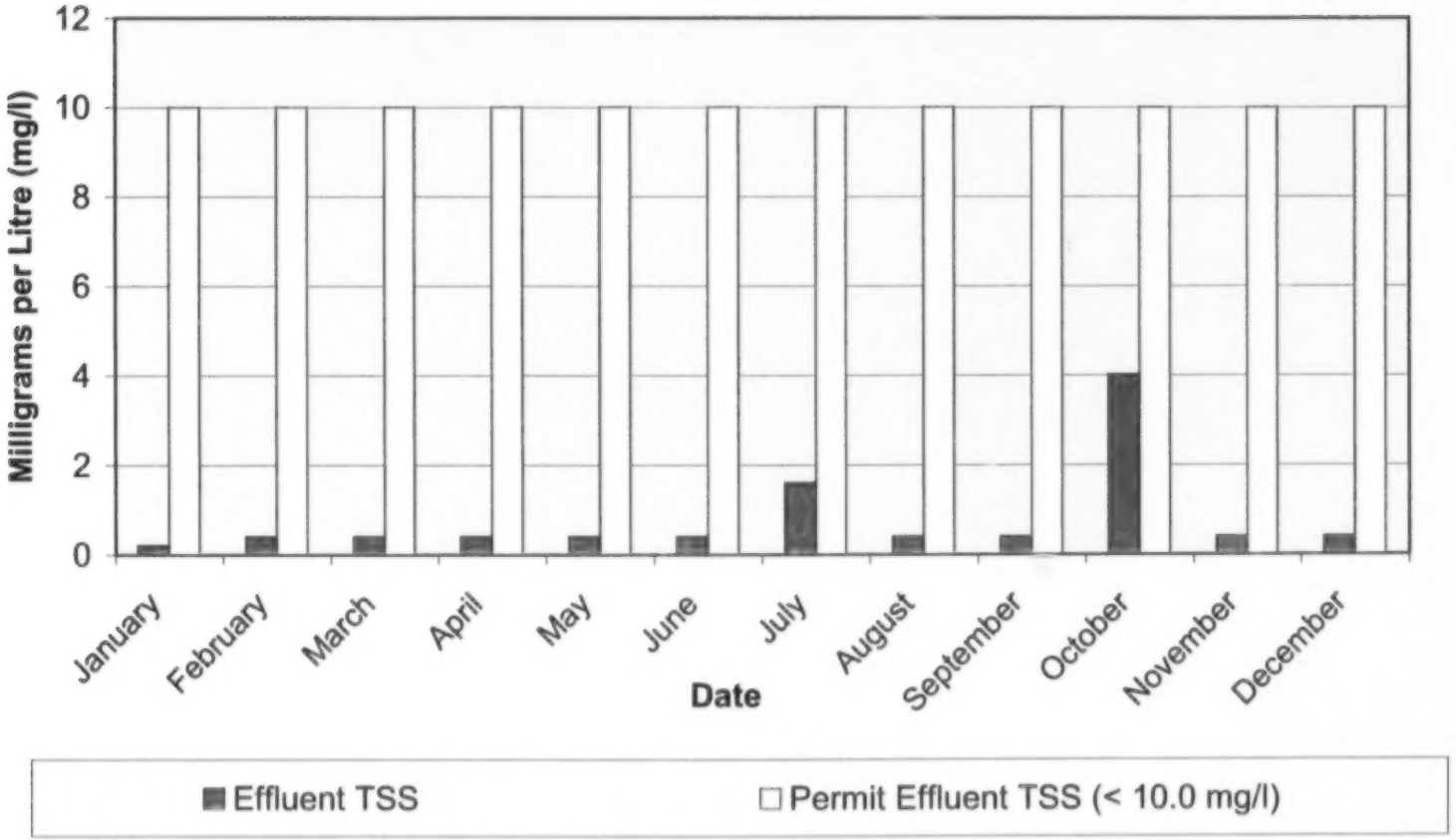
Influent = 1,378,076 kg/year Effluent = 1,810 kg/year

Loading Reduction = 99.9%

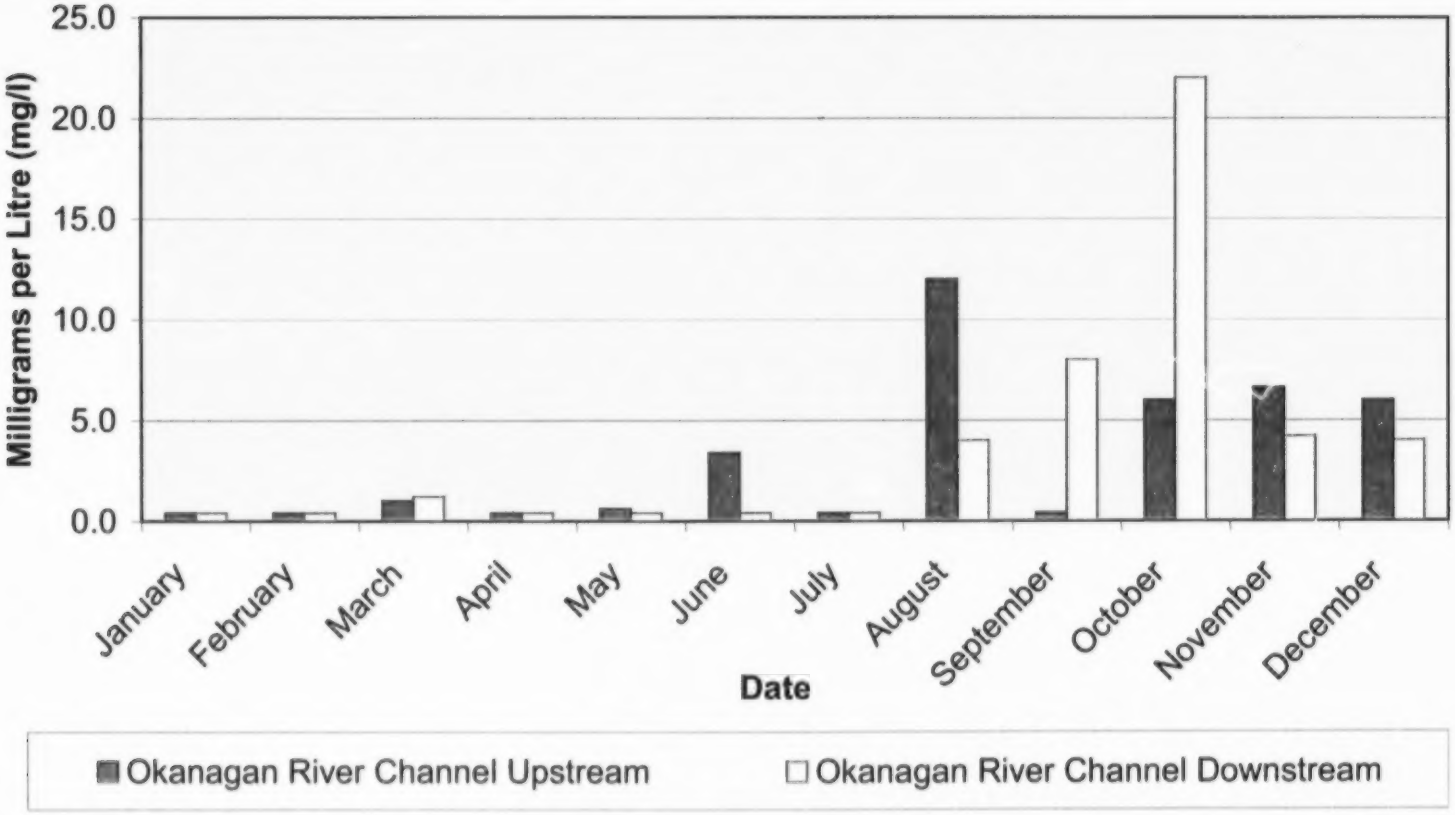
Influent Total Suspended Solids level
City of Penticton Advanced Wastewater Treatment Plant 2006



Effluent Total Suspended Solids level Compared with Permit
City of Penticton Advanced Wastewater Treatment Plant 2006



Okanagan River Channel Upstream & Downstream Total Suspended Solids levels
City of Penticton Advanced Wastewater Treatment Plant 2006



Appendix B.8.

Total & Fecal Coliform Data

Monthly Average Total and Fecal Coliforms and; Effluent and Irrigation
City of Penticton Advanced Wastewater Treatment Plant 2006

Date	Effluent							Reclaimed Irrigation Water						
	Fecal Coliforms				Total Coliforms			Fecal Coliforms				Total Coliforms		
	Average MPN [1]	Std Dev.	n	Permit Fecal Coliforms < 50 MPN [2]	Average MPN [1]	Std Dev.	n	Average MPN [1]	Std Dev.	n	Permit Fecal Coliforms < 2.2 MPN [3]	Average MPN [1]	Std Dev.	n
January	1.3	0.8	31.0	50	4.0	4	4							
February	0.3	0.4	4.0	50	0.5	0.5	4.0							
March	0.2	0.4	5.0	50	2.6	2.1	5.0							
April	0.5	0.9	4.0	50	4.3	5.8	4.0	0.0	0.0	2.0	2.2	0.5	0.5	2.0
May	0.2	0.4	5.0	50	1.6	1.2	5.0	0.0	0.0	5.0	2.2	1050.6	1362.6	5.0
June	0.5	0.5	4.0	50	21.6	29.8	5.0	0.3	0.4	4.0	2.2	979.8	1362.2	4.0
July	2.3	2.6	4.0	50	14.3	15.7	5.0	0.5	0.5	4.0	2.2	121.3	195.6	4.0
August	2.2	1.8	5.0	50	5.2	5.1	5.0	0.0	0.0	4.0	2.2	79.0	87.6	4.0
September	0.0	0.0	4.0	50	2.0	3.6	4.0	0.0	0.0	3.0	2.2	1534.5	2167.6	3.0
October	0.9	1.6	4.0	50	1.8	1.8	4.0	0.0	0.0	3.0	2.2	2.0	0.0	3.0
November	0.0	0.0	5.0	50	2.0	0.0	6.0							
December	0.0	0.0	4.0	50	0.9	1.6	4.0							
Annual [1]	**0.7**	**1**	**6.6**		**4.9**	**6**	**4.6**	**0.1**	**0.1**	**3.6**		**583.1**	**739.5**	**3.6**
Annual Total			**79**				**55**			**25**				**25**

[1] Arithmetic mean

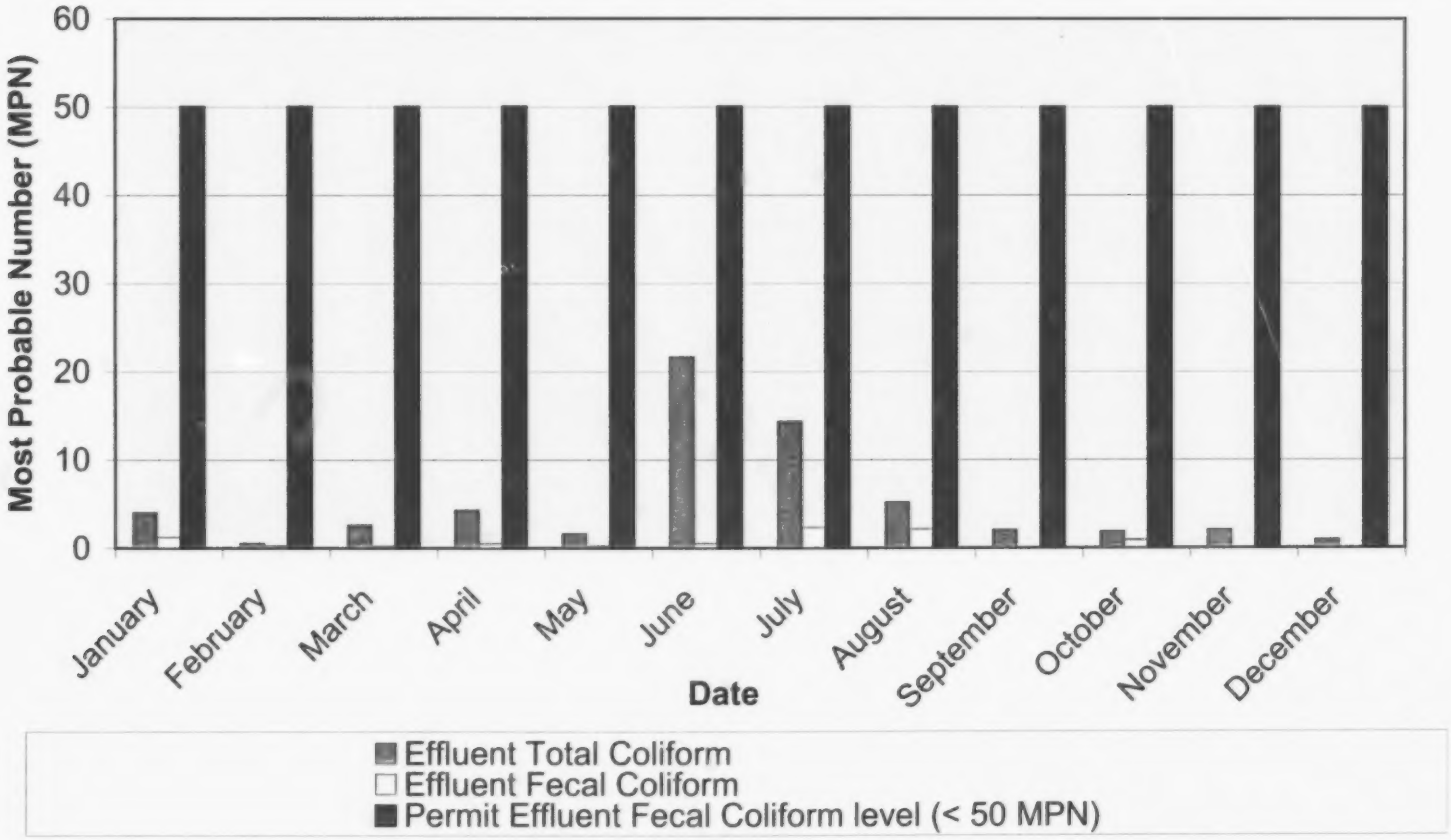
[2] Permit Value Originates From the BC Ministry of Water, Land and Air Protection's Operational Certificate for the Penticton Advanced Wastewater Treatment Plant (PE 12212) Section 4.1.2

[3] Permit Value Originates From the BC Ministry of Water, Land and Air Protection's Operational Certificate for the Penticton Advanced Wastewater Treatment Plant (PE 12212) Section 5.1.2

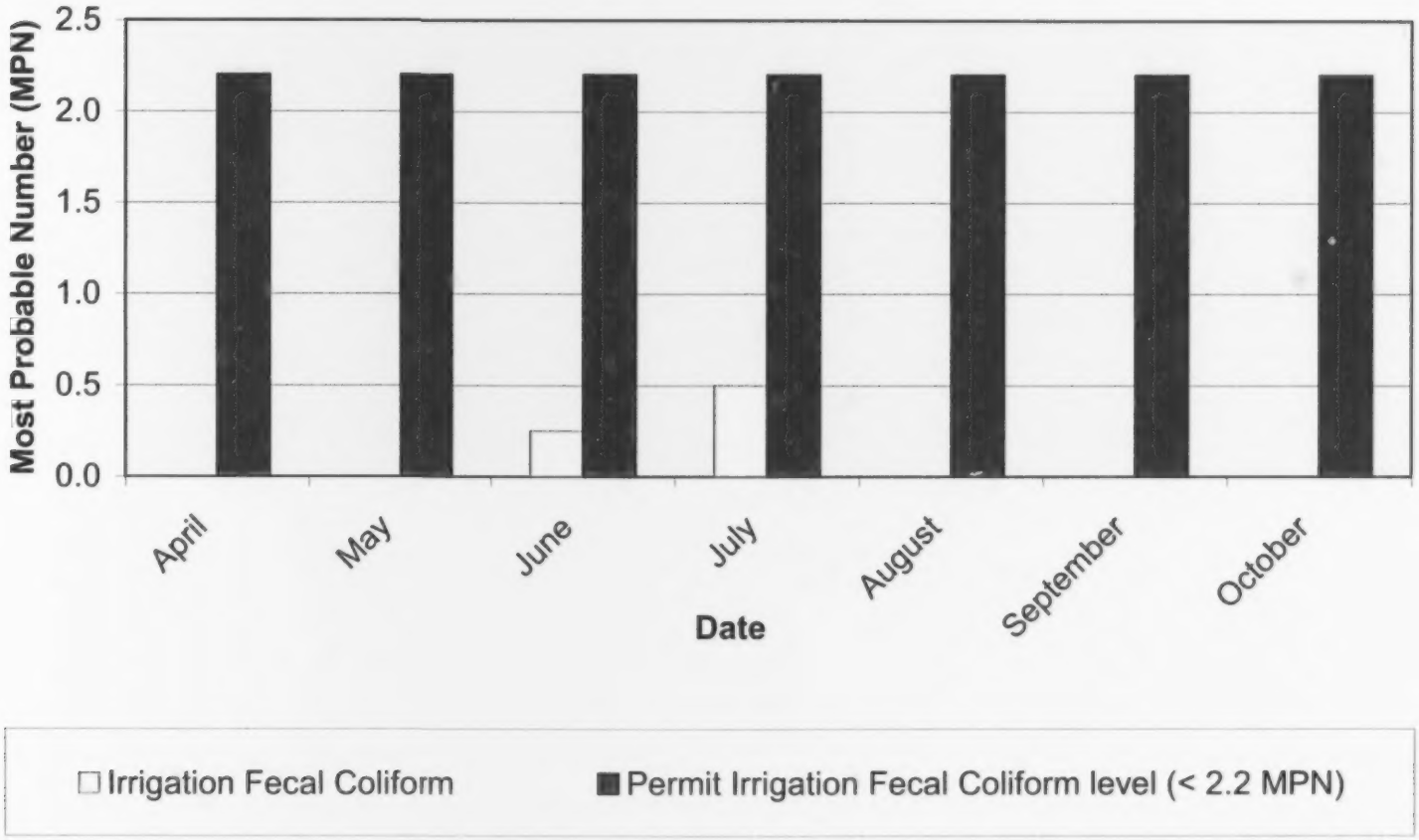
MPN = most probable number

Reclaimed Irrigation Water Sampling Location = Penticton Golf & Country Club.

Effluent Total & Fecal Coliform levels Compared with Permit
City of Penticton Advanced Wastewater Treatment Plant 2006



Irrigation Total & Fecal Coliform levels Compared with Permit
City of Penticton Advanced Wastewater Treatment Plant 2006



Monthly Total and Fecal Coliforms; Okanagan River
City of Penticton Advanced Wastewater Treatment Plant 2006

Date	Okanagan River Coliforms							
	Upstream				Downstream			
	Fecal		Total		Fecal		Total	
	MPN [1]	n	MPN [1]	n	MPN [1]	n	MPN [1]	n
January	44	1	40	1	38	1	27	1
February	40	1	15	1	76	1	49	1
March	4	1	0	1	6	1	0	1
April	1	1	0	1	31	1	1	1
May	12	1	3	1	91	1	4	1
June	34	1	4	1	32	1	8	1
July	20	1	1	1	56	1	36	1
August	49	1	22	1	320	1	56	1
September	93	1	43	1	230	1	43	1
October	93	1	2	1	230	1	15	1
November	1100	1	460	1	43	1	43	1
December	93	1	93	1	240	1	240	1
Annual	**56.8**	**1**	**131.9**	**1**	**43.5**	**1**	**116.1**	**1**
Annual Total		**12**		**12**		**12**		**12**

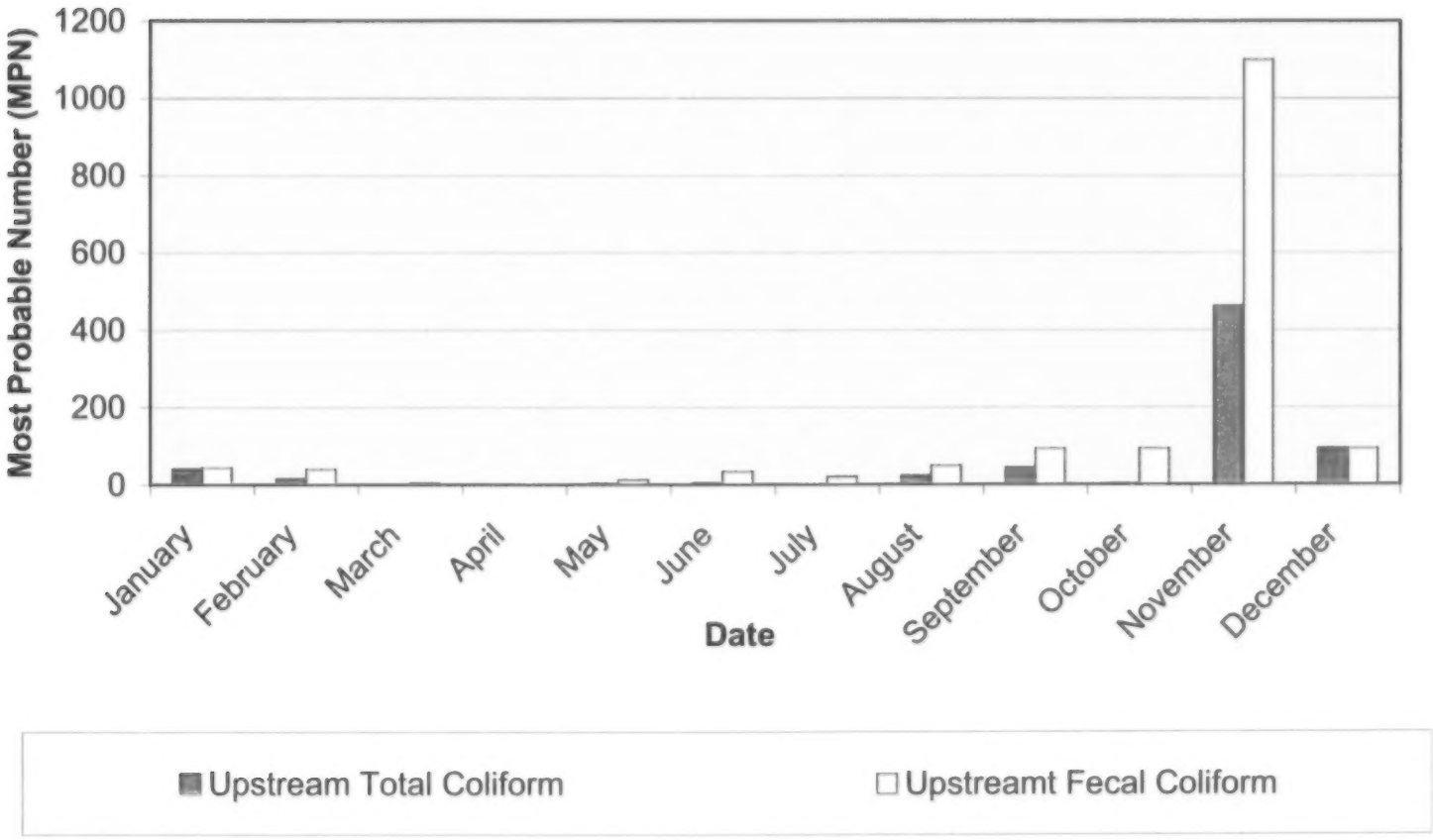
[1] Arithmetic mean

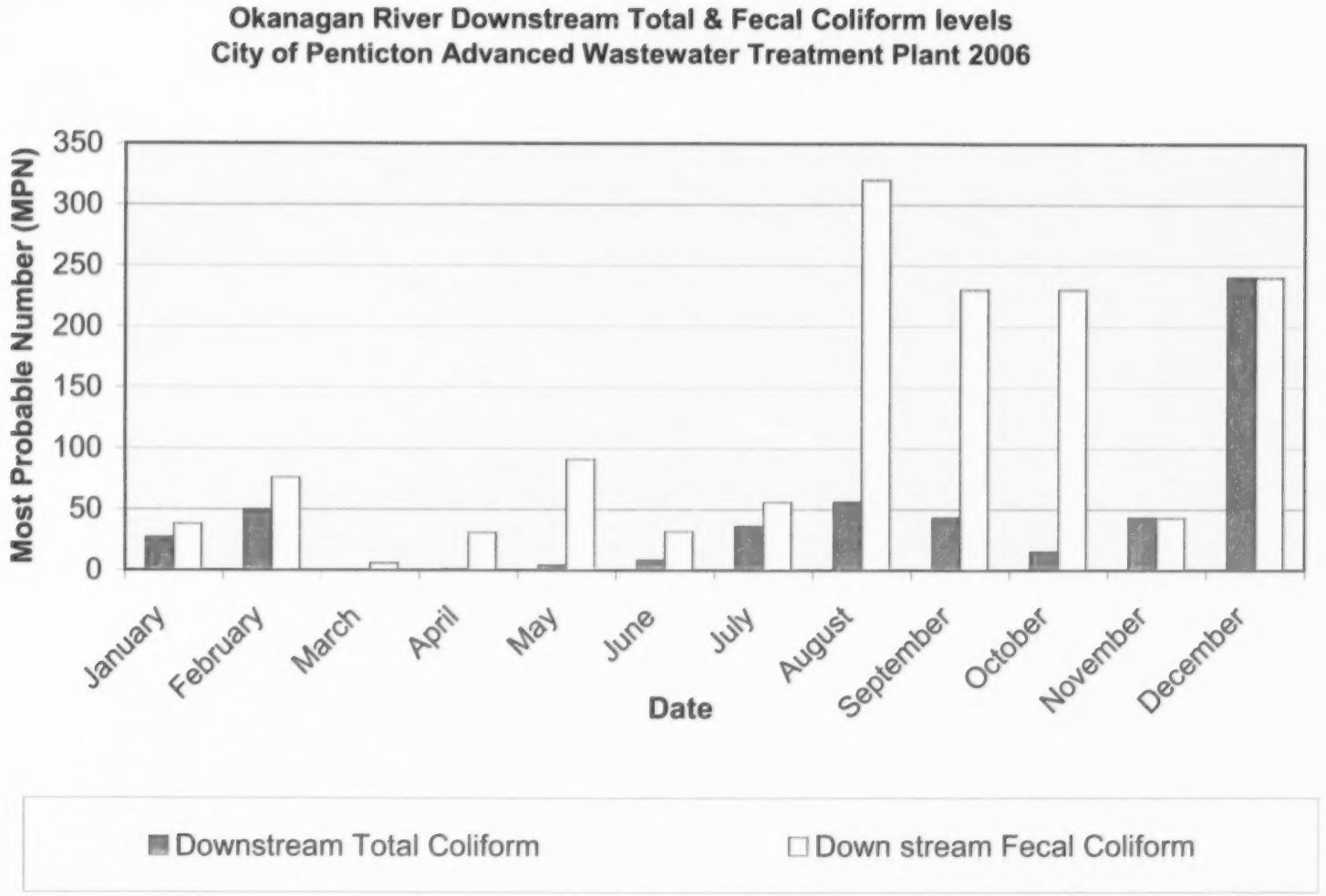
MPN = most probable number

Upstream Sampling Location = East bank of Okanagan River from loading stairs at Coyote Cruises.

Downstream Sampling Location = West bank of Okanagan River from landing stairs upstream of Shingle Creek.

Okanagan River Upstream Total & Fecal Coliform levels
City of Penticton Advanced Wastewater Treatment Plant 2006




Okanagan River Downstream Total & Fecal Coliform levels
City of Penticton Advanced Wastewater Treatment Plant 2006
Most Probable Number (MPN)
350
300
250
200
150
100
50
0
January
February
March
April
May
June
July
August
September
October
November
December
Date
Downstream Total Coliform
Down stream Fecal Coliform

Appendix B.9.

Sludge Hauling Data

Sludge Hauled to Compost Facility
City of Penticton Advanced Wastewater Treatment Plant 2006

Date	Sludge Hauling to Landfill					
	Loads to Landfill				Cost of Hauling [2]	
	Number of Bins per Month	Cu. Meters. [1]	Kgs of Dry Solids [1]	Average # of Bins/Day [3]	Per Month (Total Bin)	Per M_3
January	52	490.3	60547.9	2.5	$4,061.72	$ 0.15
February	47	443.1	54726.0	2.4	$3,671.17	$ 0.17
March	62	584.5	72191.7	2.7	$4,842.82	$ 0.13
April	58	546.8	67534.2	2.9	$4,530.38	$ 0.14
May	53	499.7	61712.3	2.7	$4,139.83	$ 0.15
June	59	556.3	68698.6	2.7	$4,608.49	$ 0.13
July	52	490.3	60547.9	2.5	$4,061.72	$ 0.15
August	62	584.5	72191.7	3.0	$4,842.82	$ 0.13
September	54	509.1	62876.7	2.6	$4,217.94	$ 0.15
October	65	612.8	75684.9	3.3	$5,077.15	$ 0.12
November	61	575.1	71027.3	2.8	$4,764.71	$ 0.13
December	55	518.6	64041.0	2.6	$4,296.05	$ 0.14
Monthly Average	**57**	**534.3**		**2.7**		**$0.14**
Annual Total	**680**	**6,411**	**791,780**		**$53,114.80**	

[1] The Calculations for cubic meters biosolids and kilograms of dry sludge hauled to the landfill are calculated using an average bin weight of 9428.2 kg/bin (1000 kg of sludge = 1 m^3)

[2] The Calculations for costs are based on $73 / bin.

[3] Based on a five day/week hauling schedule minus stat holidays

The sludge composition is typically made up of 70% RAS Sludge and 30% Secondary Anaerobic Digester Sludge.

Appendix B.10.

Water Treatment Plant Process Sludge Discharges to Sanitary Sewer System

City of Penticton W.T.P.

Sludge Sent to A.W.W.T.P. from the Water Treatment Plant year 2006

	Flow to Waste Water Plant					Kg. Sludge to Waste Water Plant		
Month	Track M^3	Avg. Track S.S.	Pond M^3	Super Nat M^3	Total Trac M^3	Track Kg.	Pond Kg.	Total Kg.
Jan	1376	1961	121	0	1497	2697.65	513.3	3211
Feb	1232	1579	120	0	1352	1945.02	456.0	2401
Mar	1376	1975	120	0	1496	2717.26	626.5	3344
Apr	1124	1767	120	0	1244	1986.11	626.5	2613
May	688	2657	250	0	938	1827.67	1110.5	2938
Jun	662	2128	84	0	746	1408.55	332.5	1741
Jul	688	1413	0	0	688	971.91	0.0	972
Aug	688	1403	158	0	846	965.26	639.1	1604
Sep	994	1443	120	0	1114	1434.01	499.0	1933
Oct	1310	1902	0	0	1310	2491.62	0.0	2492
Nov	1324	1487	125	0	1449	1968.98	549.6	2519
Dec								
Total	11462	19713	1218	0	12680	20414.04	5353.0	25767

Appendix B.11.

System Expenditures Data

2006 Advanced Waster Treatment Plant Expenditures

City of Penticton Advanced Wastewater Treatment Plant

Wastewater Treatment Costs

Administration	**$**	**154,404.00**
Administration costs include all the support services the Wastewater Treatment Plant receives from the City, such things as; engineering services, human resources, payroll , etc.		
Supervision	**$**	**155,895.00**
Supervision costs are direct management costs.		
Treatment Plant	**$**	**722,106.00**
Treatment plant costs include several items; employees wages, tools, lab supplies, chemicals, etc.		
Grounds	**$**	**10,500.00**
Grounds maintenance at the Wastewater Treatment Plant		
Utilities	**$**	**134,843.00**
Electricity and Natural Gas use.		
Hauling Bio Solids/Screenings	**$**	**50,070.00**
Trucking cost to haul dewatered solids from the Wastewater Treatment Plant to the compost facility at the landfill.		
Solids Dewatering	**$**	**128,330.00**
Cost to operate sludge dewatering equipment at the wastewater Treatment Plant.		
Vehicles	**$**	**20,520.00**
Cost to operate four plant vehicles		
Total Costs	**$**	**1,376,668.00**
Not included in the total cost are Capital Improvement Costs.		
Cost per m^3 treated	**$**	**0.2734**

Infiltration Reduction Initiatives

Wastewater collection system relining and repairing of manholes	**$**	**89,931.00**
Total Costs	**$**	**89,931.00**

Appendix B.12.

AWWTP 2006 Laboratory Monthly Data Sent to Ministry of Water, Air & Land Protection

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006				24 hour composite sample								
			Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
January	**1**	**Sun**	12.5									
	2	**Mon**	11.6									
	3	**Tue**	13.8				336	21.0		0.6	2.6	
	4	**Wed**	12.6									
	5	**Thu**	12.6		7.9	170						
	6	**Fri**	13.0									
	7	**Sat**	12.5									
	8	**Sun**	13.2									
	9	**Mon**	13.1	240			335			0.8		
	10	**Tue**	13.5		7.8		371	21.0			2.2	
	11	**Wed**	13.3								3.6	
	12	**Thu**	12.5		7.6	170	135					
	13	**Fri**	13.1									
	14	**Sat**	12.9									
	15	**Sun**	12.6									
	16	**Mon**	13.1		7.7		287					
	17	**Tue**	13.4									
	18	**Wed**	12.9		7.8		180				3.3	
	19	**Thu**	12.6		7.8			24.7		0.75	1.5	
	20	**Fri**	12.9		7.9	175	279				2.4	
	21	**Sat**	13.0									
	22	**Sun**	13.3									
	23	**Mon**	13.0		7.7		100				3.8	
	24	**Tue**	13.8									
	25	**Wed**	13.5		7.8		425		37.0	0.50	1.5	5.6
	26	**Thu**	13.4			180				0.10	2.3	
	27	**Fri**	13.2									
	28	**Sat**	13.1									
	29	**Sun**	12.8									
	30	**Mon**	13.2		7.6		241					
	31	**Tue**	13.5									
Average			13.0	240.0	7.8	173.8	268.9	16.7	37.0	0.5	2.6	5.6
Total			403.6									
Std. Dev.			0.4	0.0	0.1	4.1	99.6	9.7	0.0	0.3	0.8	0.0
n			31.0	1.0	10.0	4.0	10.0	4.0	1.0	5.0	9.0	1.0
Minimum			11.6	240.0	7.6	170.0	100.0	0.0	37.0	0.1	1.5	5.6
Maximum			13.8	240.0	7.9	180.0	425.0	24.7	37.0	0.8	3.8	5.6

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006				24 hour composite sample								
			Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
February	**1**	**Wed**	13.1	163	8.0		280		27.4	0.8	3.0	4.8
	2	**Thu**	13.0								1.9	
	3	**Fri**	12.9		7.7		350					
	4	**Sat**	13.9									
	5	**Sun**	12.1									
	6	**Mon**	12.3		7.6						3.1	
	7	**Tue**	13.1									
	8	**Wed**	13.1						33.0			
	9	**Thu**	12.5									
	10	**Fri**	12.5									
	11	**Sat**	12.4									
	12	**Sun**	11.8									
	13	**Mon**	12.6		7.8		576	29.7			2.6	
	14	**Tue**	12.3									
	15	**Wed**	12.4		7.8		333			1.40	2.6	
	16	**Thu**	12.6									
	17	**Fri**	12.5		7.8		319					
	18	**Sat**	12.3									
	19	**Sun**	12.2									
	20	**Mon**	12.3		7.8		493				2.3	
	21	**Tue**	12.4									
	22	**Wed**	12.2		7.7		522		32.5	0.38	2.6	5.6
	23	**Thu**	12.2									
	24	**Fri**	11.7									
	25	**Sat**	11.8									
	26	**Sun**	12.3									
	27	**Mon**	11.9				205					
	28	**Tue**	12.5									
Average			12.5	163.0	7.8	#DIV/0!	384.8	29.7	31.0	0.8	2.6	5.2
Total			348.9									
Std. Dev.			0.5	0.0	0.1	#DIV/0!	121.8	0.0	2.5	0.4	0.4	0.4
n			28.0	1.0	8.0	0.0	8.0	1.0	3.0	3.0	7.0	2.0
Minimum			11.7	163.0	7.6	0.0	205.0	29.7	27.4	0.4	1.9	4.8
Maximum			13.9	163.0	8.0	0.0	576.0	29.7	33.0	1.4	3.1	5.6

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006				24 hour composite sample								
			Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
March	**1**	**Wed**	13.7		7.9				29.2	0.1	3.2	4.3
	2	**Thu**	13.0		7.6							
	3	**Fri**	12.6		7.8		399					
	4	**Sat**	12.4									
	5	**Sun**	12.1									
	6	**Mon**	12.6		7.7		354	21.1				
	7	**Tue**	12.9									
	8	**Wed**	12.7				270					
	9	**Thu**	13.0		7.8	170						
	10	**Fri**	12.9				190					
	11	**Sat**	13.1									
	12	**Sun**	13.1									
	13	**Mon**	12.5		7.7						<2.5	
	14	**Tue**	13.5									
	15	**Wed**	12.9				296					
	16	**Thu**	13.2									
	17	**Fri**	13.5		7.8		287				2.9	
	18	**Sat**	13.4									
	19	**Sun**	12.5									
	20	**Mon**	12.0		7.5		353				2.3	
	21	**Tue**	13.1									
	22	**Wed**	12.7	194	7.6		295		31.0	0.10	2.8	4.6
	23	**Thu**	13.0			92		22.3		0.29	<2.5	
	24	**Fri**	12.8		7.6							
	25	**Sat**	13.0									
	26	**Sun**	12.8									
	27	**Mon**	12.4		7.6						3.1	
	28	**Tue**	13.6									
	29	**Wed**	13.2		7.6		275				5.9	
	30	**Thu**	13.7		7.7			24.2			3.1	
	31	**Fri**	13.5		7.8							
Average			12.9	193.6	7.7	131.0	302.1	22.5	30.1	0.2	2.6	4.5
Total			401.4									
Std. Dev.			0.4	0.0	0.1	39.0	57.1	1.3	0.9	0.1	1.7	0.2
n			31.0	1.0	14.0	2.0	9.0	3.0	2.0	3.0	9.0	2.0
Minimum			12.0	193.6	7.5	92.0	190.0	21.1	29.2	0.1	0.0	4.3
Maximum			13.7	193.6	7.9	170.0	399.0	24.2	31.0	0.3	5.9	4.6

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006				24 hour composite sample								
			Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
April	1	Sat	13.5									
	2	Sun	12.8									
	3	Mon	13.0		7.6		259				2.2	
	4	Tue	13.3									
	5	Wed	13.4		7.6		293			0.90	2.6	
	6	Thu	13.8					20.4		0.6	2.7	
	7	Fri	13.4		7.7		197					
	8	Sat	13.6									
	9	Sun	13.2		7.5	200						
	10	Mon	13.7		7.7		424				4.6	
	11	Tue	13.4								2.8	
	12	Wed	13.6		7.7		329	22.9			3.6	
	13	Thu	13.4			100		24.7		1.4	3.9	
	14	Fri	14.2		6.9		282	25.6				
	15	Sat	14.1									
	16	Sun	14.4									
	17	Mon	13.3				277				1.7	
	18	Tue	13.8									
	19	Wed	13.7	250	7.7		335	27.3	37.0	0.36	3.2	8.0
	20	Thu	13.7					19.5		0.27	3.2	
	21	Fri	15.7		7.8	180	332	18.5				
	22	Sat	12.4									
	23	Sun	13.5									
	24	Mon	13.6		7.6		305				3.6	
	25	Tue	14.0									
	26	Wed	13.9		7.6		321				2.8	
	27	Thu	13.7		7.6	216		23.2			2.6	
	28	Fri	13.9		7.6		456					
	29	Sat	14.1									
	30	Sun	13.7									
Average			13.7	250.0	7.6	174.0	317.5	22.8	37.0	0.7	3.0	8.0
Total			409.6									
Std. Dev.			0.6	0.0	0.2	44.6	66.3	2.9	0.0	0.4	0.7	0.0
n			30.0	1.0	13.0	4.0	12.0	8.0	1.0	5.0	13.0	1.0
Minimum			12.4	250.0	6.9	100.0	197.0	18.5	37.0	0.3	1.7	8.0
Maximum			15.7	250.0	7.8	216.0	456.0	27.3	37.0	1.4	4.6	8.0

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006				24 hour composite sample									
			Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
May	1	Mon	13.8		7.6		282				2.5	
	2	Tue	14.5									
	3	Wed	14.2		7.8		342			0.4	2.5	
	4	Thu	13.7			210		24.8		0.38	2.5	
	5	Fri	14.1				304				2.6	
	6	Sat	14.5									
	7	Sun	14.7									
	8	Mon	14.0		7.7		275	24.6			1.6	
	9	Tue	14.6									
	10	Wed	14.4		7.8		288				2.5	
	11	Thu	14.5					23.8		0.9	2.6	
	12	Fri	14.7		7.8		345					
	13	Sat	14.4									
	14	Sun	14.0									
	15	Mon	14.2		7.8		320				2.5	
	16	Tue	14.8									
	17	Wed	14.7	268	7.6		220	25.3	38.0	0.4	3.1	7.6
	18	Thu	15.0			215		24.5		0.37	2.8	
	19	Fri	15.2		7.7		278				3.1	
	20	Sat	15.3									
	21	Sun	16.7									
	22	Mon	14.4		7.8	288	288				2.9	
	23	Tue	15.4									
	24	Wed	15.0		7.5		271	23.0			2.4	
	25	Thu	15.5			205		21.9			2.5	
	26	Fri	15.0		7.5		334					
	27	Sat	14.7									
	28	Sun	15.2									
	29	Mon	14.9		7.7		348					
	30	Tue	15.2									
	31	Wed	14.9		7.6		372			0.3	3.1	
Average			14.7	268.0	7.7	229.5	304.8	24.0	38.0	0.5	2.6	7.6
Total			456.2									
Std. Dev.			0.6	0.0	0.1	34.0	39.2	1.1	0.0	0.2	0.4	0.0
n			31.0	1.0	13.0	4.0	14.0	7.0	1.0	6.0	15.0	1.0
Minimum			13.7	268.0	7.5	205.0	220.0	21.9	38.0	0.3	1.6	7.6
Maximum			16.7	268.0	7.8	288.0	372.0	25.3	38.0	0.9	3.1	7.6

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006				24 hour composite sample								
			Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
June	1	Thu	15.1			210		23.2		0.6	3.5	
	2	Fri	15.2		7.6		177					
	3	Sat	16.2									
	4	Sun	14.8									
	5	Mon	14.1		7.9		298				3.0	
	6	Tue	15.7									
	7	Wed	14.9		7.5		248				2.5	
	8	Thu	15.0			210		18.8			2.7	
	9	Fri	15.9		7.6		299					
	10	Sat	14.7									
	11	Sun	14.2									
	12	Mon	15.1		7.6		188				2.1	
	13	Tue	15.8									
	14	Wed	15.5				238			0.5	2.7	
	15	Thu	15.0			190		21.1		0.59	3.2	
	16	Fri	14.6		7.7		373				3.2	
	17	Sat	15.3									
	18	Sun	14.4									
	19	Mon	13.9		7.9		374				2.4	
	20	Tue	14.8									
	21	Wed	14.3	214	7.7		241	22.1	30.0	0.6	2.5	6.3
	22	Thu	14.4			210					2.9	
	23	Fri	14.3		7.7		313					
	24	Sat	14.1									
	25	Sun	14.7									
	26	Mon	14.0		7.7		359				2.4	
	27	Tue	14.7									
	28	Wed	15.0		6.8			21.0			2.5	
	29	Thu	14.4			265		26.0		0.2	3.0	
	30	Fri	14.6		7.4		297					
Average			14.8	214	7.6	217	284	22.0	30.0	0.5	2.8	6.3
Total			444.8									
Std. Dev.			0.6	0	0.3	25	64	2.2	0.0	0.1	0.4	0.0
n			30.0	1	12	5	12	6	1	5	14	1
Minimum			13.9	214	6.76	190	177	18.8	30	0.22	2.1	6.3
Maximum			16.2	214	7.88	265	374	26.0	30.0	0.6	3.5	6.3

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006			24 hour composite sample									
			Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
July	1	Sat	16.0									
	2	Sun	13.9									
	3	Mon	14.9		7.6		290				2.8	
	4	Tue	16.2									
	5	Wed	14.9		7.5		272				3.7	
	6	Thu	16.0			246		28.2			2.9	
	7	Fri	17.0		7.6		342					
	8	Sat	16.7									
	9	Sun	14.9									
	10	Mon	15.7		7.7						3.0	
	11	Tue	15.8									
	12	Wed	14.9		7.7		299				2.8	
	13	Thu	14.9			241		19.3		0.5	3.3	
	14	Fri	15.4		7.6		208					
	15	Sat	14.8									
	16	Sun	14.8									
	17	Mon	14.9		7.5		395				3.0	
	18	Tue	15.6									
	19	Wed	15.5	123	7.6		324	24.0	31.6	0.29	2.4	5.0
	20	Thu	15.4			220		23.7			3.9	
	21	Fri	15.3		7.5		447					
	22	Sat	15.2									
	23	Sun	15.0									
	24	Mon	14.6		7.5		383	22.3			3.6	
	25	Tue	16.6									
	26	Wed	16.2				323				3.0	
	27	Thu	16.2			200		21.0			3.8	
	28	Fri	15.1		7.5							
	29	Sat	15.2									
	30	Sun	14.6									
	31	Mon	14.9		7.7		188				3.0	
Average			15.4	123	7.6	227	316	23.1	31.6	0.41	3.1	5.0
Total			477.4									
Std. Dev.			0.7	0	0.1	18	74	2.8	0.0	0.12	0.4	0.0
n			31.0	1	12	4	11	6	1	2	13	1
Minimum			13.9	122.8	7.46	200	188	19.25	31.6	0.29	2.4	5.0
Maximum			17.0	122.8	7.73	246	447	28.2	31.6	0.52	3.9	5

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006				24 hour composite sample								
			Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
August	**1**	**Tue**	15.5									
	2	**Wed**	15.0									
	3	**Thu**	15.3									
	4	**Fri**	15.1		7.6		321					
	5	**Sat**	15.5									
	6	**Sun**	15.2									
	7	**Mon**	15.6		7.4						3.2	
	8	**Tue**	15.3									
	9	**Wed**	15.8		7.5		190				3.0	
	10	**Thu**	15.6		7.5	161		24.5		1.0	3.3	
	11	**Fri**	16.2		7.6							
	12	**Sat**	16.3									
	13	**Sun**	15.2									
	14	**Mon**	15.3		7.7		190				3.3	
	15	**Tue**	15.3									
	16	**Wed**	15.4		7.7		324				3.1	
	17	**Thu**	15.3			242		26.8			3.6	
	18	**Fri**	15.2									
	19	**Sat**	15.5									
	20	**Sun**	14.5									
	21	**Mon**	14.9		7.7		332				2.8	
	22	**Tue**	15.1									
	23	**Wed**	15.2	94	7.7		130	19.8	34.0	0.80	3.3	6.3
	24	**Thu**	16.0			227		19.5		1.40	0.7	
	25	**Fri**	15.6		7.6		345					
	26	**Sat**	15.3									
	27	**Sun**	15.1									
	28	**Mon**	14.8		7.3		331				3.3	
	29	**Tue**	15.7									
	30	**Wed**	14.7		7.5		242				3.6	
	31	**Thu**	14.6			225		25.5			3.3	
Average			15.3	94	7.6	214	267	23.2	34.0	1.07	3.0	6.3
Total			475.1									
Std. Dev.			0.4	0	0.1	31	76	3.0	0.0	0.25	0.7	0
n			31.0	1	12	4	9	5	1	3	12	1
Minimum			14.5	94	7.31	161	130	19.5	34	0.8	0.7	6.3
Maximum			16.3	94	7.69	241.5	345	26.8	34.0	1.40	3.6	6.3

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006				24 hour composite sample								
			Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
September	**1**	**Fri**	15.8		7.6		345					
	2	**Sat**	14.7									
	3	**Sun**	13.7									
	4	**Mon**	13.4		7.6						2.5	
	5	**Tue**	14.1									
	6	**Wed**	14.3									
	7	**Thu**	14.2			221		20.0		0.8	2.6	
	8	**Fri**	15.3		7.6		273					
	9	**Sat**	14.8									
	10	**Sun**	14.1									
	11	**Mon**	14.3		7.7		285				2.6	
	12	**Tue**	14.5									
	13	**Wed**	13.4		7.7		403				2.6	
	14	**Thu**	13.5			243		23.7			2.4	
	15	**Fri**	13.8		7.7		363					
	16	**Sat**	13.7									
	17	**Sun**	13.2									
	18	**Mon**	14.0		7.2		212				2.8	
	19	**Tue**	15.5									
	20	**Wed**	14.3	184	7.5		394	18.5	32.8	1.10	2.3	5.4
	21	**Thu**	14.6			166		16.8		1.5	2.3	
	22	**Fri**	14.3		7.5		350					
	23	**Sat**	14.0									
	24	**Sun**	14.0									
	25	**Mon**	13.8		7.7						2.4	
	26	**Tue**	14.3									
	27	**Wed**	13.5		7.7		186				1.8	
	28	**Thu**	14.6			180		21.4			2.2	
	29	**Fri**	13.9									
	30	**Sat**	14.0									
Average			14.2	184	7.6	203	312	20.1	32.8	1.13	2.4	5.4
Total			425.5									
Std. Dev.			0.6	0.0	0.1	31	73	2.4	0.0	0.29	0.3	0.0
n			30.0	1	11	4	9	5	1	3	11	1
Minimum			13.2	184	7.21	166	186	16.75	32.8	0.8	1.8	5.4
Maximum			15.8	184	7.7	243	403	23.7	32.8	1.5	2.8	5.4

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006				24 hour composite sample								
			Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
October	**1**	**Sun**	14.2									
	2	**Mon**	13.2									
	3	**Tue**	14.4									
	4	**Wed**	14.0				371				2.1	
	5	**Thu**	14.2			221		20.3		2.50	3.0	
	6	**Fri**	14.0		7.4							
	7	**Sat**	14.5									
	8	**Sun**	14.6									
	9	**Mon**	13.1		7.4						1.5	
	10	**Tue**	14.5									
	11	**Wed**	13.5		7.5		260				2.5	
	12	**Thu**	13.6			180		23.5			2.4	
	13	**Fri**	13.8		7.2							
	14	**Sat**	12.7									
	15	**Sun**	13.8									
	16	**Mon**	12.5									
	17	**Tue**	13.6									
	18	**Wed**	13.1	228	7.1	167		18.6	29.2	1.10	2.6	6.0
	19	**Thu**	13.3									
	20	**Fri**	13.5									
	21	**Sat**	13.0									
	22	**Sun**	12.4									
	23	**Mon**	13.4									
	24	**Tue**	13.4									
	25	**Wed**	13.0		7.5	185	416	17.0			1.1	
	26	**Thu**	13.4									
	27	**Fri**	13.2									
	28	**Sat**	12.9									
	29	**Sun**	13.0									
	30	**Mon**	12.7									
	31	**Tue**	13.1									
Average			13.5	228	7.4	188	349	19.8	29.2	1.80	2.2	6.0
Total			417.5									
Std. Dev.			0.6	0	0.1	20	66	2.4	0.0	0.70	0.6	0.0
n			31.0	1	6	4	3	4	1	2	7	1
Minimum			12.4	228	7.1	166.67	260	17	29.2	1.10	1.13	6.0
Maximum			14.6	228	7.5	221	416	23.5	29.2	2.5	3.0	6.03

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006				24 hour composite sample								
			Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
November	1	Wed	12.5		7.4	233		20.8		1.3	2.1	
	2	Thu	12.6									
	3	Fri	12.6									
	4	Sat	12.7									
	5	Sun	12.3									
	6	Mon	12.9									
	7	Tue	13.4									
	8	Wed	12.8		7.3	185		21.8			3.0	
	9	Thu	13.0									
	10	Fri	12.9									
	11	Sat	12.8									
	12	Sun	12.2									
	13	Mon	12.7									
	14	Tue	12.9									
	15	Wed	13.4		7.5	215	292	18.4		0.06	2.8	
	16	Thu	12.9									
	17	Fri	12.4									
	18	Sat	13.9									
	19	Sun	11.1									
	20	Mon	12.6									
	21	Tue	13.0									
	22	Wed	12.7		7.5	180	337	18.4			2.8	
	23	Thu	12.4									
	24	Fri	13.1									
	25	Sat	12.7									
	26	Sun	12.0									
	27	Mon	12.2									
	28	Tue	12.6	790	7.7	220	1044	30.3	63.0	0.1	3.5	14.0
	29	Wed	12.3									
	30	Thu	13.1									
Average			12.7	790	7.4	207	558	21.9	63.0	0.49	2.8	14.0
Total			380.4									
Std. Dev.			0.5	0	0.1	21	344	4.4	0.0	0.58	0.5	0.0
n			30.0	1	5	5	3	5	1	3	5	1
Minimum			11.1	790	7.25	180	292	18.4	63.0	0.06	2.1	14
Maximum			13.9	790	7.66	233	1044	30.3	63	1.3	3.5	14

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006				24 hour composite sample								
			Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
December	**1**	**Fri**	13.7									
	2	**Sat**	11.2									
	3	**Sun**	11.9									
	4	**Mon**	13.1									
	5	**Tue**	12.8									
	6	**Wed**	12.6									
	7	**Thu**	12.9									
	8	**Fri**	12.8									
	9	**Sat**	12.6									
	10	**Sun**	12.1									
	11	**Mon**	12.1									
	12	**Tue**	13.1									
	13	**Wed**	12.6		7.6	175	413	24.1			3.3	
	14	**Thu**	14.2									
	15	**Fri**	11.7									
	16	**Sat**	13.6									
	17	**Sun**	12.1									
	18	**Mon**	12.7									
	19	**Tue**	13.3									
	20	**Wed**	12.6		7.44	185	264	22.4			2.38	
	21	**Thu**	13.2									
	22	**Fri**	13.3									
	23	**Sat**	13.5									
	24	**Sun**	12.9									
	25	**Mon**	12.3									
	26	**Tue**	11.1									
	27	**Wed**	11.9	520	7.54	195	311	23.2	37	0.4	2.38	6.13
	28	**Thu**	12.9									
	29	**Fri**	12.9									
	30	**Sat**	13.4									
	31	**Sun**	12.7									
Average			12.7	520	7.5	185	329	23.2	37.0	0.4	2.7	6.1
Total			393.9									
Std. Dev.			0.7	0	0.1	8	62	0.7	0.0	0.0	0.4	0.0
n			31.0	1	3	3	3	3	1	1	3	1
Minimum			11.1	520	7.44	175	264	22.4	37	0.4	2.38	6.1
Maximum			14.2	520	7.6	195	413	24.1	37.0	0.4	3.3	6.13

City of Penticton Advanced Wastewater Treatment Plant: Influent

2006		24 hour composite sample								
	Flow ML/day	S.S.	pH	Alk. as CaCO3	COD, Mn III Mthd	NH3 as N	TKN as N	NO3- & NO2- as N	Ortho-P as P	Total P
Annual										
Average	13.8	266	7.6	199	315	22.0	34.2	0.7	2.7	6.4
Total	5061.2									
Std. Dev.	1.2	173	0.2	36	107	4.2	7.9	0.6	0.8	2.2
n	365.0	12	119	43	103	57	15	41	118	14
Minimum	11.1	94	6.76	92	100	0	27.4	0.06	0	4.3
Maximum	17.0	790	8	288	1044	30.3	63.0	2.5	5.9	14

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006

							Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_3 & NO_2 as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
January	1	Sun	12.2	53	20	1.11	2.07	0.01		7.1			31	0.75		3.0		0.04					
	2	Mon	11.4	57	22	0.91	1.07	0.01		7.1			25	0.14		2.1		0.03					
	3	Tue	13.3	46	21.5	1.27	1.37	0.00		7.0			20	0.94		2.7		0.05					
	4	Wed	11.4	43	20	1.11	1.40	0.00		7.2			20		2.50	3.9	6.4	0.03	0.11	6	0	73.0	1.25
	5	Thu	11.7	57	19.5	0.99	1.30	0.00		7.1	89		32	<.02		4.6		0.03					
	6	Fri	12.2	55	20	1.09	1.07	0.00		7.0			20					<.02					
	7	Sat	11.7	64	12.5	0.96	0.98	0.00		7.1			20	<.02		5.0		0.03					
	8	Sun	12.6	69	15	0.98	1.15	0.00		7.1			30					0.03					
	9	Mon	13.0	71	17	1.12	1.05	0.00		7.1		<5	26	<.02	1.3	4.4	5.7	0.03	0.09			74.1	1.17
	10	Tue	13.0	59	17	1.01	1.15	0.00		7.1			30	0.22		5.1		0.03					
	11	Wed	13.1	57	17	0.89	1.10	0.00		7.1			20					0.03		5	2		
	12	Thu	12.9	61	18	0.81	0.86	0.01		7.0	88		20	<.02				0.05					
	13	Fri	12.4	61	17	0.96	1.05	0.00		7.0			20					0.03					
	14	Sat	12.0	62	17	0.91	0.86	0.01		7.0	92		20	<.02		3.0		0.04					
	15	Sun	12.0	59	16	0.71	1.19	0.01		7.1			20					0.03					
	16	Mon	12.1	54	19	0.76	1.14	0.00		7.1			51	0.35		4.0		0.03					
	17	Tue	12.3	59	17	0.70	0.87	0.00	<0.4	7.1			55					0.04					
	18	Wed	11.8	61	17	0.55	0.87	0.01		7.1			38		1.2	3.9	5.1	0.03	0.16	3	2	60.6	1.89
	19	Thu	11.9	63	17	0.26	1.08	0.00		7.1			19	<.02		4.1		0.02					
	20	Fri	12.0	59	18	0.57	1.15	0.00		7.1	89		33					0.06					
	21	Sat	12.0	58	25	0.61	1.22	0.00		7.0			20	<.02		4.6		0.03					
	22	Sun	11.8	56	20	0.58	1.27	0.00		7.2			20					0.02					
	23	Mon	12.1	63	20	0.51	1.12	0.00		7.1			20	0.43		4.8		0.03					
	24	Tue	12.0	60	20	0.53	1.28	0.00		7.1			20					0.03					
	25	Wed	12.0	67	20	0.45	0.80	0.01		7.1			20		1.42	4.4	5.8	0.02	0.06	2.0	1.0	69.9	0.72
	26	Thu	12.1	66	20	0.40	0.82	0.00		6.9	90		20					0.04					
	27	Fri	11.9	71	20	0.40	1.28	0.02		6.9			20					0.05					
	28	Sat	11.7	68	19	0.30	2.13	0.56		6.9			20					0.03					
	29	Sun	12.1	65	21	0.25	1.01	0.00		6.9			20					0.04					
	30	Mon	12.6	59	23	0.30	1.20	0.00		7.0			20	0.32				0.03					
	31	Tue	12.7	64	22	0.25	0.73	0.01	0.4	7.0			21					0.03					
Average			12.2	60	19	0.72	1.15	0	0.2	7.1	90	0.0	25	0.23	1.62	4.0	0.8	0.03	0.11	4	1	9.0	0.16
Total			378.1	1867	588																	277.5	5.03
Std. Dev.			0.5	6	2	0.30	0.30	0	0.2	0.1	1	0.0	9	0.29	0.52	0.9	2.0	0.01	0.04	2	1	23.3	0.45
n			31.0	31	31	31	31	31	2	31	5	1	31	14	4	15	30	31	4	4	4	31	31
Minimum			11.4	43	12.5	0.25	0.73	0	0.0	6.9	88	0.0	19	0.00	1.24	2.1	0.0	0	0.06	2	0	0.0	0.00
Maximum			13.3	71	25	1.27	2.13	0.56	0.4	7.2	92	0.0	55	0.94	2.5	5.1	6.4	0.06	0.16	6	2	74.1	1.89
Permit Limits	**Daily Max**		18.2				0.50	0	10			10					6.0		2.0		50		
			16.2 [1]																0.25 [2]				

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006							Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_3 & NO_2 as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
February	**1**	**0.00**	12.3	62	21	0.25	1.19	0.02	<0.4	7.1		<5	20		1.6	4.9	6.5	0.06	0.13	0	0	80.2	1.60
	2	**Wed**	15.2	55	22	0.30	1.17	0.00		7.0			20	0.08				0.04					
	3	**Thu**	9.2	53	21	0.30	1.13	0.00		7.1			20					0.03					
	4	**Fri**	13.7	52	22	0.29	1.30	0.00		7.0			25	0.25	1.8	3.5	5.3	0.04				72.4	
	5	**Sat**	11.7	51	23	0.28	1.43	0.00		7.0			30		1.8			0.03					
	6	**Sun**	12.5	62	22	0.25	0.97	0.00		7.1			32	<.02	1.8	5.0	6.8	0.03				84.9	
	7	**Mon**	13.1	52	20	0.33	1.23	0.00		7.1			28		1.8			0.03					
	8	**Tue**	12.7	57	19	0.32	1.40	0.00		6.9			24		1.8			0.04	0.18	1	0		2.29
	9	**Wed**	12.2	54	17	0.25	0.80	0.01		7.0	97		22	0.19		3.9		0.10					
	10	**Thu**	12.1	58	19	0.30	0.91	0.01		6.9			20		1.5			0.04	0.07				0.85
	11	**Fri**	12.0	53	17	0.25	0.91	0.01		6.9			26	0.17	1.5	3.1	4.6	0.05	0.07			55.2	0.84
	12	**Sat**	12.0	69	17	0.30	1.35	0.00		6.9			28		1.5			0.03	0.07				0.84
	13	**Sun**	12.5	53	21	0.36	1.20	0.00		7.1			31	0.15	1.5	4.6	6.1	0.02	0.07			76.2	0.87
	14	**Mon**	12.3	63	12	0.30	0.86	0.02	<0.4	7.0			30		1.5			0.02	0.07				0.86
	15	**Tue**	12.5	53	21	0.45	1.38	0.08		7.0			20		1.5	4.6	6.1	0.04	0.07	0	0	76.3	0.88
	16	**Wed**	12.3	42	22	0.45	1.42	0.00		7.0			22		1.5			0.05	0.07				0.86
	17	**Thu**	11.9	43	22	0.45	1.43	0.00		7.0			30		1.5			0.02	0.07				0.83
	18	**Fri**	11.2	41	20	0.47	1.53	0.00		7.1			20	1.6	2.7	4.7	7.4	0.03	0.07			82.9	0.79
	19	**Sat**	11.0	41	19	0.46	1.41	0.00		7.1			20	1.70	2.7			0.0[3]	0.07				0.77
	20	**Sun**	11.2	45	19	0.50	1.46	0.00		7.1				0.75	2.7	4.8	7.5	0.04	0.07			83.7	0.78
	21	**Mon**	11.4	39	20	0.57	1.44	0.00		7.2				2.15	2.7			0.03	0.07				0.79
	22	**Tue**	10.6	39	18	0.45	0.90	0.00		7.2				1.48	2.7	4.3	7.0	0.05	0.07	1	1	74.0	0.74
	23	**Wed**	11.5	35	20	0.58	1.08	0.00		7.4				1.75	2.2			<.02	0.08				0.92
	24	**Thu**	10.9	33	19	0.61	0.97	0.00		7.2				0.78	2.2			0.02	0.08				0.87
	25	**Fri**	10.5	37	19	0.65	1.21	0.00		7.0				0.26	2.2	4.6	6.8	0.05	0.08			71.5	0.84
	26	**Sat**	10.9	35	19	0.66	0.90	0.01		7.1					2.2			0.03	0.08				0.87
	27	**Sun**	11.3	40	19	0.81	1.97	0.63		7.2			20	0.62	2.2			0.04	0.08				0.90
	28	**Mon**	12.3	36	25	0.65	1.20	0.00		7.1			20		2.2			0.03	0.08				0.99
Average			11.9	48	20	0.42	1.22	0	0.0	7.1	97	0.0	24	0.80	2.0	4.4	2.3	0.04	0.08	1	0	27.0	0.71
Total			333.0	1353	555																	757.3	19.99
Std. Dev.			1.1	10	2	0.15	0.26	0.12	0.0	0.1	0	0	4	0.71	0.44	0.6	3.1	0.02	0.03	1	0	36.6	0.51
n			28.0	28	28	28	28	28	2	28	1	1	21	15	25	11	28	28	21	4	4	28	28
Minimum			9.2	33	12	0.25	0.80	0	0.0	6.9	97	0.0	20	0.00	1.50	3.1	0.0	0.00	0.07	0	0	0.0	0.00
Maximum			15.2	69	25	0.81	1.97	0.63	0.0	7.4	97	0.0	32	2.2	2.7	5.0	7.5	0.10	0.18	1	1	84.9	2.29
Permit Limits	**Daily Max**		18.2				0.50	0	10			10					6.0		2.0		50		
			16.2 a																0.25 [5]				

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006

							Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_3^- & NO_2 as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
March	**1**	**0.00**	13.8	33	29	0.96	1.23	0.00		7.1			23		2.2	4.8	7.0	0.04	0.08	2.0	0	96.4	1.10
	2	**0.00**	12.2	31	27	0.82	1.26	0.00		7.3			20	0.48	2.1	4.9	7.0	0.06	0.08			85.4	0.98
	3	**Wed**	11.8	36	24	0.78	1.48	0.00		7.2			24	1.36	2.10	5.1	7.2	0.03	0.08			84.7	0.94
	4	**Thu**	11.6	45	24	0.75	1.18	0.00		7.1			20	0.62	2.1	6.2	8.3	0.04	0.08			96.4	0.93
	5	**Fri**	11.8	58	25	0.77	1.26	0.00		7.1			20	0.33	2.10			0.02	0.08				0.95
	6	**Sat**	12.1	56	25	0.87	1.60	0.00		7.1			20	0.57	2.1	6.0	8.1	0.03	0.08			97.9	0.97
	7	**Sun**	12.2	54	22	0.90	1.60	0.00		7.1			20	0.67	2.10	5.3	7.4	0.02	0.08			90.5	0.98
	8	**Mon**	12.2	34	22	0.85	1.30	0.00		7.1			20	0.87	2.10	5.9	8.0	0.02	0.08	5	1	97.8	0.98
	9	**Tue**	12.4	43	22	0.85	1.30	0.00		7.2	110		20	0.89	2.50	5.9	8.4	0.02	0.09			104.4	1.12
	10	**Wed**	12.7	35	22	0.87	1.30	0.00		7.2			20	0.99	2.50	5.9	8.4	0.02	0.09			106.6	1.14
	11	**Thu**	12.8	46	23	1.01	1.99	0.06		7.2			20	0.91	2.50	3.0	5.5	0.04	0.09			70.4	1.15
	12	**Fri**	12.8	41	23	0.96	1.85	0.00		7.2			20		2.50			0.03	0.09				1.16
	13	**Sat**	12.8	43	23	0.99	1.77	0.00		7.1			20	1.42	2.50			0.05	0.09				1.15
	14	**Sun**	13.2	45	22	1.07	1.60	0.00		7.2			20	1.78	2.50			0.05	0.09				1.19
	15	**Mon**	12.1	38	23	0.9	1.55	0.00		7.2			20		2.50			0.06	0.09	5	0		1.09
	16	**Tue**	12.8	44	-127	0.90	1.29	0.00		7.1			20	0.55	2.1	5.6	7.7	0.07	0.10			98.9	1.28
	17	**Wed**	13.9	42	184	0.89	1.22	0.00		7.1			27	0.25	2.1			0.06	0.10				1.39
	18	**Thu**	13.7	43	30	0.84	1.12	0.00		7.2			20	0.35	2.1			0.04	0.10				1.37
	19	**Fri**	12.7	51	28	0.82	1.16	0.00		7.2			26		2.1			0.03	0.10				1.27
	20	**Sat**	12.4	49	27	0.82	1.00	0.00		7.2			20	0.08	2.1	6.4	8.5	0.05	0.10			105.3	1.24
	21	**Sun**	12.9	50	27	1.06	1.59	0.00		7.2			20		2.1			0.04	0.10				1.29
	22	**Mon**	12.7	102	54	1.36	1.97	0.01		7.2		<5	20		2.1	4.3	6.4	0.06	0.10	0	0	81.5	1.27
	23	**Tue**	12.6	50	25	1.27	1.81	0.00		7.1			20	1.16	2.0	4.6	6.6	0.04	0.12			83.3	1.51
	24	**Wed**	12.6	50	25	1.27	1.81	0.00		7.0			20		2.0			0.02	0.12				1.51
	25	**Thu**	12.0	44	24	1.28	1.77	0.00		7.1			20	0.79	2.0	5.7	7.7	0.06	0.12			92.4	1.44
	26	**Fri**	13.6	46	25	1.32	1.71	0.00	<0.4	7.1			20	1.18	2.0			0.03	0.12				1.64
	27	**Sat**	13.1	44	24	1.53	1.53	0.00		7.2			20		2.0			0.05	0.12				1.57
	28	**Sun**	13.5	50	26	1.61	1.61	0.00		7.2			20		2.0			0.05	0.12				1.62
	29	**Mon**	13.2	69	24	1.57	2.08	0.00		7.3			20		2.0	5.3	7.3	0.05	0.12	1	0	96.3	1.58
	30	**Tue**	13.4	60	26	1.44	1.94	0.00		7.2			20	0.70	1.7	5.5	7.2	0.05	0.12			96.6	1.61
	31	**Wed**	13.6	60	26	1.49	2.18	0.00		7.2					1.7			0.09	0.12				1.63
Average			12.8	48	26	1.06	1.55	0	0.0	7.2	110	0.0	21	0.8	2.1	5.3	4.1	0.04	0.10	3	0	51.1	1.26
Total			395.4	1492	804																	1585.0	39.05
Std. Dev.			0.6	13	40	0.27	0.31	0.01	0.0	0.1	0	0.0	2	0.4	0.2	0.8	3.8	0.02	0.02	2	0	46.9	0.23
n			31.0	31	31	31	31	31	1	31	1	1	30	20	31	17	31	31	31	5	5	31	31
Minimum			11.6	31	-127	0.75	1.00	0	0.0	7.0	110	0.0	20	0.08	1.7	3.0	0.0	0.02	0.08	0	0	0.0	0.93
Maximum			13.9	102	184	1.61	2.2	0.06	0.0	7.27	110	0.0	27	1.78	2.5	6.4	8.5	0.09	0.12	5	1	106.6	1.64
Permit Limits	**Daily Max**		18.2				0.50	0	10			10					6.0		2.0		50		
			16.2 a																0.25 [c]				

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006							Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_3 & NO_2 as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
April	**1**	**0.00**	13.8	60	25	1.32	2.02	0.00		7.2			20	0.74	1.73	5.6	7.3	0.04	0.12			101.1	1.66
	2	**0.00**	12.7	60	27	1.18	1.67	0.00		7.2			20		1.73			0.03	0.12				1.53
	3	**0.00**	14.3	65	25	1.07	1.09	0.00		7.2			20	0.11	1.73	5.6	7.3	0.03	0.12			104.7	1.71
	4	**Sat**	10.6	70	19	1.06	1.31	0.00		7.2			20	0.17	1.73			<.02	0.12				1.27
	5	**Sun**	10.9	65	21	1.05	1.41	0.00		7.2			20		1.73	5.0	6.7	<.02	0.12	3	0	73.5	1.31
	6	**Mon**	11.1	72	21	1.13	1.44	0.00		7.1			20	0.29	1.54	4.6	6.1	0.02	0.11			68.4	1.23
	7	**Tue**	10.2	67	23	0.96	1.04	0.00		7.3			20		1.54			0.03	0.11				1.12
	8	**Wed**	11.0	65	15	1.12	2.58	0.00		7.1			20	0.64	1.54	4.9	6.4	0.03	0.11			70.8	1.21
	9	**Thu**	11.5	77	21	1.15	1.93	0.00		7.2	112		20		1.54			0.03	0.11				1.26
	10	**Fri**	10.7	84	20	1.26	1.89	0.00		7.1			20		1.54			0.12	0.11				1.18
	11	**Sat**	11.4	67	20	1.26	2.05	0.00		7.2			20	1.00	1.54			0.04	0.11				1.26
	12	**Sun**	12.4	66	23	1.44	2.15	0.00		7.1			20	0.98	1.54	4.4	5.9	0.07	0.11	0	0	73.7	1.36
	13	**Mon**	12.9	50	33	1.47	2.20	0.00		7.2			28	6.80	2.15	6.0	8.2	0.06	0.11			105.2	1.42
	14	**Tue**	14.0	55	24	1.49	2.17	0.00		7.1			20	1.42	2.15			0.03	0.11				1.55
	15	**Wed**	11.8	57	28	1.53	1.91	0.00		7.1			20	0.80	2.15	5.2	7.4	0.05	0.11			86.8	1.30
	16	**Thu**	12.1	58	28	1.46	1.30	0.00		7.1			20		2.15			0.04	0.11				1.34
	17	**Fri**	10.8	55	27	1.06	0.60	0.00		7.1			20	4.20	2.15	6.0	8.2	0.03	0.11			88.4	1.19
	18	**Sat**	11.7	62	28	1.33	1.49	0.00		7.3			31		2.15			0.06	0.11				1.29
	19	**Sun**	10.8	55	36	1.12	2.10	0.00	<0.4	7.2		<5	35	0.63	2.15	4.4	6.6	0.07	0.11	0	0	70.6	1.19
	20	**Mon**	11.0	60	24	1.08	2.10	0.00		7.0			72	1.16	2.04	4.9	6.9	0.06	0.10			76.7	1.10
	21	**Tue**	11.5	55	14	0.97	1.87	0.00		7.0			59	0.77	2.04			0.07	0.10				1.15
	22	**Wed**	10.7	62	36	0.96	1.70	0.00		7.1			54	1.54	2.04	5.9	7.9	0.05	0.10			84.9	1.07
	23	**Thu**	11.1	50	16	1.07	1.73	0.00		7.2			37		2.04			0.06	0.10				1.11
	24	**Fri**	11.4	52	25	0.98	1.05	0.00		7.2			20	0.48	2.04	5.3	7.3	0.03	0.10			83.5	1.14
	25	**Sat**	11.1	53	25	1.07	1.23	0.00		7.2			20		2.04			0.08	0.10				1.11
	26	**Sun**	11.1	52	23	0.96	1.08	0.00		7.1			28	0.07	2.04	5.9	7.9	<.02	0.10	14	2	88.2	1.11
	27	**Mon**	10.5	37	20	0.87	1.02	0.00		7.2	122		21	0.48	1.52	6.0	7.5	<.02	0.10			79.0	1.05
	28	**Tue**	10.5	70	24	1.03	0.98	0.00		7.2			28		1.52			0.03	0.10				1.05
	29	**Wed**	11.1	70	21	1.06	1.05	0.00		7.2			22	0.17	1.52	5.7	7.2	0.04	0.10			79.9	1.11
	30	**Thu**	11.3	72	24	1.02	0.89	0.00		7.2			20		1.52			0.04	0.10				1.13
Average			11.5	61	24	1.15	1.57	0	0.0	7.2	117	0.0	27	1.18	1.8	5.3	3.8	0.04	0.11	4	1	44.5	1.25
Total			346.2	1843	716																	1335.3	37.50
Std. Dev.			1.0	9	5	0.18	0.49	0	0.0	0.1	5	0.0	13	1.59	0.26	0.6	3.6	0.03	0.01	6	1	42.5	0.17
n			30.0	30	30	30	30	30	1	30	2	1	30	19	30	16	30	30	30	4	4	30	30
Minimum			10.2	37	14	0.87	0.60	0	0.0	7.0	112	0	20	0.07	1.52	4.4	0.0	0.00	0.10	0	0	0.0	1.05
Maximum			14.3	84	36	1.53	2.6	0	0.0	7.3	122	0	72	6.8	2.15	6	8.15	0.12	0.12	14	2	105.2	1.71
Permit Limits	**Daily Max**		18.2				0.50	0	10			10					6.0		2.0		50		
			16.2 a																0.25 [b]				

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006							Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_3^- & NO_2^- as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
May	1	0.00	10.2	65	15	1.06	1.02	0.00		7.2			20	0.23	1.52	5.8	7.3	0.04	0.10			74.6	1.02
	2	0.00	12.6	58	24	1.28	1.23	0.00		7.2			20		1.52			0.04	0.10				1.26
	3	0.00	10.7	61	24	1.12	1.16	0.00		7.2			37		1.52	5.3	6.8	0.08	0.10	1	1	73.1	1.07
	4	0.00	11.7	60	20	1.23	1.01	0.00		7.3	110		38	0.03	1.8	5.1	6.9	0.06	0.09			80.7	1.05
	5	Mon	9.9	93	29	1.17	1.15	0.00		7.2			20		1.8			0.05	0.09				0.89
	6	Tue	6.8	94	27	1.18	1.18	0.00		7.1			20	0.15	1.8	5.2	7.0	0.04	0.09			47.3	0.61
	7	Wed	13.2	58	21	1.13	1.14	0.00		7.2			20		1.8			0.03	0.09				1.19
	8	Thu	11.0	60	23	1.01	1.07	0.00		7.3			20	0.21	1.8	5.6	7.4	0.07	0.09			81.3	0.99
	9	Fri	11.3	52	25	1.15	1.46	0.00		7.2			20		1.8			0.04	0.09				1.01
	10	Sat	9.2	42	24	1.18	1.16	0.00		7.2			20		1.8	5.6	7.4	0.06	0.09	0	0	67.8	0.82
	11	Sun	9.3	54	24	1.20	1.17	0.00		7.2			20	0.85	2.40	6.1	8.5	0.06	0.11			79.2	1.02
	12	Mon	10.2	37	24	1.42	1.38	0.00		7.2			26		2.40			0.06	0.11				1.12
	13	Tue	10.5	38	25	1.17	1.36	0.00		7.2			27	2.40	2.40	6.1	8.5	0.06	0.11			89.1	1.15
	14	Wed	10.3	52	25	1.06	1.30	0.00		7.2			32	0.65	2.40			0.05	0.11				1.13
	15	Thu	9.1	57	23	0.94	1.09	0.00		7.2			21	0.40	2.40	5.7	8.1	0.07	0.11			73.6	1.00
	16	Fri	10.4	63	24	0.86	1.02	0.00		7.2			31		2.40			0.08	0.11				1.14
	17	Sat	9.4	61	24	1.04	0.83	0.00	<0.4	7.2		<5	21	0.1	2.40	7.8	10.2	0.05	0.11	3.0	0	96.1	1.04
	18	Sun	9.1	57	24	0.83	1.01	0.00		7.0	118		44	0.1	1.9	7.7	9.6	0.07	0.12			88.0	1.10
	19	Mon	8.8	54	24	1.01	1.28	0.00		7.3			21		1.9			0.08	0.12				1.06
	20	Tue	9.7	50	24	0.99	1.31	0.00		7.3			20	1.6	1.9	6.1	8.0	0.10	0.12			77.8	1.16
	21	Wed	12.7	48	24	0.79	1.27	0.00		7.3			20		1.9			0.08	0.12				1.52
	22	Thu	11.4	67	21	0.71	1.15	0.00		7.2			22	0.4	1.9	7.4	9.3	0.06	0.12			106.3	1.37
	23	Fri	11.6	65	23	0.71	1.43	0.00		7.2			26		1.9			0.04	0.12				1.39
	24	Sat	10.0	48	24	0.49	1.31	0.00		7.2			25		1.9	4.2	6.1	0.07	0.12	1.0	0	61.3	1.20
	25	Sun	12.7	64	24	0.80	1.14	0.00		7.2	120		54	0.5	1.40	6.1	7.5	0.06	0.11			95.2	1.40
	26	Mon	10.9	73	24	0.78	0.66	0.00		7.2			53		1.40			0.04	0.11				1.20
	27	Tue	11.1	73	24	0.82	0.65	0.00		7.2			49	0.03	1.40	6	7.3	0.04	0.11			81.0	1.22
	28	Wed	11.0	65	24	1.08	1.01	0.00		7.2			61		1.40			0.03	0.11				1.21
	29	Thu	10.3	60	25	1.20	1.19	0.00		7.2			32	0.32	1.40	5.80	7.2	0.05	0.11			73.8	1.13
	30	Fri	9.8	64	24	1.35	0.98	0.00		7.2			41		1.40			0.05	0.11				1.08
	31	Sat	9.6	63	24	2.24	1.23	0		7.1			60		1.40	6.20	7.6	0.09	0.11	3.0	0.0	73.2	1.06
Average			10.5	60	24	1.06	1.1	0	0.0	7.2	116	0	30	0.54	1.8	6.0	4.7	0.06	0.11	2	0	45.8	1.12
Total			324.2	1856	734																	1419.6	34.60
Std. Dev.			1.3	12	2	0.30	0.2	0	0.0	0.0	4	0.0	13	0.6	0.4	0.9	3.9	0.02	0.01	1	0	40.17	0.17
n			31.0	31	31	31	31	31	1	31	3	1	31	15	31	18	30	31	31	5	5	31	31
Minimum			6.8	37	15	0.49	0.7	0	0.0	7.0	110	0	20	0.03	1.40	4.2	0.0	0.03	0.09	0	0	0.0	0.61
Maximum			13.2	94	29	2.24	1.5	0	0.0	7.27	120	0	61	2.4	2.4	7.8	10.2	0.1	0.12	3	1	106.3	1.52
Permit Limits	**Daily Max**		18.2				0.50	0	10			10					6.0		2.0		50		
			16.2 a																0.25 [b]				

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006							Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_3^- & NO_2^- as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
June	1	0.00	9.2	59	23	1.93	1.05	0.00		7.2			45	0.36	1.64	6.10	7.74	0.09	0.17			71.4	1.57
	2	0.00	9.0	61	25	2.17	1.11	0.00		7.2			20		1.64			0.13	0.17				1.52
	3	0.00	11.0	61	24	2.17	0.00	0.00		7.2			20	0.28	1.64	5.60	7.24	0.11	0.17			79.5	1.87
	4	0.00	9.7	70	24	1.69	1.02	0.00		7.2			20		1.64			0.11	0.17				1.64
	5	0.00	9.2	87	27	1.58	0.67	0.00		7.5			20	0.14	1.64	5.70	7.34	0.10	0.17			67.4	1.56
	6	Thu	10.6	41	20	1.66	0.94	0.00		7.2			20		1.64			0.07	0.17				1.80
	7	Fri	9.0	53	4	1.45	0.75	0.00		7.2			20		1.64	5.30	6.94	0.09	0.17	3	1	62.2	1.52
	8	Sat	10.0	59	16	1.42	1.16	0.00		7.2	125		20	0.23	1.38	4.90	6.28	0.08	0.13	80		63.0	1.30
	9	Sun	12.1	51	19	1.50	1.13	0.00		7.2			40		1.38			0.08	0.13				1.58
	10	Mon	10.8	75	21	1.21	1.03	0.00		7.2			32	0.05	1.38	4.90	6.28	0.08	0.13			67.7	1.40
	11	Tue	10.5	75	14	1.09	1.02	0.00		7.2			27		1.38			0.09	0.13				1.37
	12	Wed	11.1	68	20	1.11	0.99	0.00		7.2			38	0.12	1.38	4.60	5.98	0.09	0.13			66.3	1.44
	13	Thu	10.9	60	18	1.13	1.06	0.00		7.2			41		1.38			0.08	0.13				1.41
	14	Fri	11.0	60	13	0.91	1.05	0.00		7.2			43		1.38	5.20	6.58	0.13	0.13	2	0	72.4	1.43
	15	Sat	10.8	66	15	0.91	1.04	0.00		7.4	160		32	0.35	1.32	5.50	6.82	0.07	0.13			73.6	1.40
	16	Sun	10.3	63	17	0.91	0.92	0.00		7.3			22		1.32			0.05	0.13				1.34
	17	Mon	10.7	65	18	0.88	1.07	0.00		7.2			38	0.30	1.32	6.20	7.52	0.08	0.13			80.5	1.39
	18	Tue	9.9	62	15	0.84	1.06	0.00		7.3			22		1.32			0.12	0.13				1.29
	19	Wed	9.6	87	19	0.72	0.56	0.00		7.4			20	0.24	1.32	5.50	6.82	0.08	0.13			65.6	1.25
	20	Thu	9.5	50	12	0.73	1.16	0.00		7.4			20		1.32			0.10	0.13				1.23
	21	Fri	8.3	50	9	0.67	0.91	0.00	<0.4	7.3		<5	35	0.38	1.32	5.30	6.62	0.08	0.13	18	0	54.7	1.07
	22	Sat	8.6	69	12	0.55	0.80	0.00		7.2	130		20	0.39	1.02	5.50	6.52	0.06	0.10			56.4	0.86
	23	Sun	8.4	70	12	0.50	0.61	0.00		7.2			47		1.02			0.04	0.10				0.84
	24	Mon	8.6	68	10	0.50	0.55	0.00		7.2			20	0.21	1.02	5.30	6.32	0.04	0.10			54.6	0.86
	25	Tue	8.6	66	10	0.53	0.68	0.00		7.2			32		1.02			0.03	0.10				0.86
	26	Wed	8.0	76	12	0.54	0.52	0.00		7.2			39	0.29	1.02	4.70	5.72	0.05	0.10			46.0	0.80
	27	Thu	7.6	75	10	0.59	0.53	0.00		7.2			41		1.02			0.04	0.10				0.76
	28	Fri	7.1	77	3	0.63	0.74	0.30		7.4			37	0.15	1.02			0.06	0.10	5	1		0.71
	29	Sat	7.1	72	5	0.56	0.48	0.00		6.1	85		50	0.15	1.05	7.70	8.75	0.07	0.10			62.6	0.71
	30	Sun	7.2	86	5	0.67	0.73	0.00		7.1			20		1.05			0.04	0.10				0.72
Average			9.5	66	15	1.06	0.84	0	0.0	7.2	125	0	30	0.24	1.32	5.5	3.6	0.08	0.13	22	1	34.8	1.25
Total			284.5	1982	452																	1043.9	37.55
Std. Dev.			1.3	11	6	0.50	0.27	0	0.0	0.2	27	0	10	0.10	0.22	0.7	3.5	0.03	0.03	30	1	33.2	0.34
n			30.0	30	30	30	30	30	1	30	4	1	30	15	30	16	30	30	30	5	4	30	30
Minimum			7.1	41	3	0.50	0.00	0	0.0	6.1	85	0	20	0.05	1.02	4.6	0.0	0.03	0.1	2	0	0.0	0.71
Maximum			12.1	87	27	2.2	1.16	0.3	0.0	7.46	160	0	50	0.39	1.6	7.7	8.8	0.13	0.17	80	1	80.5	1.87
Permit Limits	**Daily**	**Max**	18.2				0.50	0	10			10					6.0		2.0		50		
			16.2 a																0.25 [b]				

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006							Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_3 & NO_2 as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
July	1	0.00	8.3	88	7	0.71	0.63	0.00		7.0			83	0.1	1.05	5.1	6.2	0.04	0.10			50.9	0.83
	2	0.00	7.3	87	7	0.76	0.64	0.00		7.0			20		1.05			0.04	0.10				0.73
	3	0.00	7.4	80	4	0.83	0.51	0.00		7.3			20	0.16	1.05	5.0	6.1	0.04	0.10			44.8	0.74
	4	0.00	7.7	64	0	0.92	0.96	0.00		7.3			29		1.05			0.05	0.10				0.77
	5	0.00	9.8	88	3	0.91	0.97	0.51		7.2			20		1.05	4.2	5.3	0.05	0.10	0	0	51.5	0.98
	6	0.00	9.2	92	8	0.85	0.66	0.00		7.2	118		20	0.22	1.14	4.4	5.5	0.04	0.09			51.0	0.83
	7	Sat	9.4	86	15	1.10	1.11	0.00		7.2			52		1.14			0.05	0.09				0.84
	8	Sun	7.3	86	8	0.75	0.80	0.00		7.1			38		1.14			0.04	0.09				0.65
	9	Mon	7.6	88	13	0.63	0.79	0.00		7.1			35		1.14			0.04	0.09				0.68
	10	Tue	7.4	88	14	0.59	1.06	0.00		7.7			40	0.21	1.14	4.5	5.6	0.04	0.09			41.6	0.66
	11	Wed	11.1	101	15	0.55	0.80	0.00		7.6			40		1.14			0.03	0.09				1.00
	12	Thu	11.8	96	12	0.45	0.76	0.00		8.4			47		1.14	5.2	6.3	0.06	0.09	14	6	74.6	1.06
	13	Fri	11.8	81	13	0.44	0.66	0.00		7.1	125		45	0.22	1.20	5.4	6.6	0.03	0.08			78.2	0.95
	14	Sat	12.4	93	12	0.40	0.90	0.00		6.9			20		1.20			0.06	0.08				0.99
	15	Sun	12.1	82	13	0.50	0.78	0.00		7.2			37	0.22	1.20	6.6	7.8	0.04	0.08			94.1	0.97
	16	Mon	12.1	74	12	0.52	0.68	0.00		7.3			22		1.20			0.04	0.08				0.97
	17	Tue	11.0	80	12	0.50	1.00	0.00		7.2			20	0.34	1.20	6.3	7.5	0.05	0.08			82.2	0.88
	18	Wed	10.9	75	11	0.55	1.08	0.00		7.2			31		1.20			0.04	0.08				0.87
	19	Thu	10.6	75	8	0.66	0.77	0.00	1.6	7.1		<5	52	0.24	1.20	5.6	6.8	0.04	0.08	15	0	71.7	0.84
	20	Fri	10.1	75	12	0.58	1.05	0.00		7.0	120		33	0.54	1.78	5.6	7.4	0.05	0.11			74.6	1.11
	21	Sat	10.2	85	12	0.67	1.06	0.00		7.0			32		1.78	5.5	7.3	0.04	0.11			74.2	1.12
	22	Sun	10.1	69	11	0.68	1.12	0.00		7.4			23	0.53	1.78	5.5	7.3	0.04	0.11			73.6	1.11
	23	Mon	13.2	76	17	0.77	1.12	0.00		7.3			37		1.78			0.05	0.11				1.46
	24	Tue	9.5	63	13	0.91	1.14	0.00		7.1			15	0.77	1.78	4.7	6.5	0.06	0.11			61.8	1.05
	25	Wed	9.6	60	16	1.19	1.37	0.00		7.0			26		1.78			0.06	0.11				1.05
	26	Thu	9.7	66	16	1.19	1.43	0.00					36		1.78			0.05	0.11	43	3		1.07
	27	Fri	9.5	83	16	1.16	0.89	0.00					25	0.35	1.36	5.0	6.4	0.04	0.14			60.2	1.33
	28	Sat	8.9	117	15	1.05	0.97	0.00		7.1			26		1.36			0.06	0.14				1.25
	29	Sun	9.3	100	14	0.92	0.71	0.00		7.0			30	0.25	1.36	5.1	6.5	0.05	0.14			60.1	1.30
	30	Mon	9.6	86	15	0.97	0.76	0.01		6.9			44		1.36			0.04	0.14				1.34
	31	Tue	8.8	112	14	1.05	0.70	0.00		7.6			45	0.16	1.36	5.3	6.7	0.07	0.14			58.7	1.23
Average			9.8	84	12	0.77	0.90	0.02	1.6	7.2	121	0.0	34	0.31	1.3	5.2	3.6	0.05	0.10	14	2	35.6	0.99
Total			303.6	2596	358																	1103.8	30.68
Std. Dev.			1.6	13	4	0.23	0.22	0.09	0	0.3	3	0.0	14	0.18	0.27	0.6	3.3	0.01	0.02	16	3	33.9	0.21
n			31.0	31	31	31	31	31	1	29	3	1	31	14	31	17	31	31	31	5	4	31	31
Minimum			7.3	60	0	0.40	0.51	0	1.6	6.91	118	0.0	15	0.12	1.05	4.2	0.0	0.03	0.08	0	0	0.0	0.65
Maximum			13.2	117	17	1.19	1.43	0.51	1.6	8.4	125	0.0	83	0.8	1.8	6.6	7.8	0.07	0.14	43	6	94.1	1.5
Permit Limits	**Daily Max**		18.2				0.50	0	10								6.0		2.0		50		
			16.2 a																0.25 [b]				

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006							Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_3 & NO_2 as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
August	**1**	**Mon**	8.8	113	48	1.08	0.20	0.00		7.19			25		1.36			0.05	0.14				1.23
	2	**0.00**	9.1	105	20	0.86	0.80	0.00		7.13			20	0.26	1.36	6.40	7.76	0.05	0.14	15.00	3.60	70.89	1.28
	3	**0.00**	8.3	106	19	0.88	0.87	0.00		7.09	100.00		20	0.31	1.10	7.30	8.40	0.04	0.10			69.80	0.79
	4	**0.00**	8.7	104	20	0.77	1.0	0.00		7.05			24		1.10			0.05	0.10				0.83
	5	**0.00**	8.4	114	22	0.76	0.75	0.00		7.25			20	0.30	1.10	5.30	6.40	0.04	0.10			53.88	0.80
	6	**0.00**	8.5	110	22	0.69	0.70	0.00		7.68			20		1.10			0.04	0.10				0.81
	7	**0.00**	8.4	96	13	0.60	0.68	0.00		7.64			20	0.41	1.10	6.70	7.80	0.06	0.10			65.70	0.80
	8	**Tue**	8.4	102	21	0.54	0.72	0.00		7.15			20		1.10			0.05	0.10				0.79
	9	**Wed**	8.4	105	15	0.54	0.70	0.00		6.97			25		1.10	4.80	5.90	0.06	0.10	<3	<3	49.54	0.80
	10	**Thu**	7.8	100	17	0.52	0.70	0.00		7.11	115.00		37	0.16	1.18	5.10	6.28	0.06	0.10			49.15	0.77
	11	**Fri**	8.3	103	19	0.46	0.69	0.00		7.21			20		1.18			0.05	0.10				0.82
	12	**Sat**	8.8	81	19	0.53	0.68	0.00		7.08			20	0.24	1.18	5.60	6.78	0.06	0.10			59.65	0.86
	13	**Sun**	8.2	107	19	0.62	0.71	0.00		7.06			21		1.18			0.07	0.10				0.80
	14	**Mon**	8.1	97	18	0.60	0.59	0.05		7.21			25	0.23	1.18	5.70	6.88	0.05	0.10			55.62	0.79
	15	**Tue**	8.0	81	17	0.62	0.94	0.05		7.19			37		1.18			0.05	0.10				0.79
	16	**Wed**	7.9	80	17	0.62	0.62	0.00		7.13			42		1.18	5.20	6.38	0.06	0.10	3.60	3.60	50.54	0.78
	17	**Thu**	7.3	98	17	0.67	0.79	0.00		7.70	131.00		46	0.29	1.30	5.40	6.70	0.05	0.11			49.04	0.81
	18	**Fri**	7.4	105	16	0.69	0.76	0.00		7.10			35		1.30			0.04	0.11				0.81
	19	**Sat**	7.5	106	17	0.67	0.81	0.00		7.20			29	0.16	1.30	4.90	6.20	0.04	0.11			46.74	0.83
	20	**Sun**	7.1	90	16	0.65	0.81	0.00		7.13			29		1.30			0.04	0.11				0.78
	21	**Mon**	6.9	88	14	0.73	0.82	0.00		7.09			29	0.35	1.30	5.40	6.70	0.06	0.11			46.32	0.76
	22	**Tue**	6.3	86	13	0.76	1.12	0.00		7.09			35		1.30			0.05	0.11				0.69
	23	**Wed**	7.3	101	14	0.79	1.05	0.00	<0.4	7.11		<5	57	0.20	1.30	5.50	6.80	0.07	0.11	3.60	<3	49.54	0.80
	24	**Thu**	7.1	89	13	0.79	1.59	0.00		7.20	114.00		55	0.37	1.34	4.30	5.64	0.05	0.12			39.91	0.81
	25	**Fri**	5.1	95	10	0.93	1.60	0.00		6.90			40		1.34			0.04	0.12				0.58
	26	**Sat**	6.1	78	13	0.90	1.51	0.00		7.30			38	0.34	1.34	6.70	8.04	0.03	0.12			49.29	0.71
	27	**Sun**	6.7	95	14	0.99	1.21	0.00		7.20			20		1.34			0.04	0.12				0. 7
	28	**Mon**	6.3	88	11	1.06	1.42	0.00		7.22			35	0.33	1.34	6.00	7.34	0.04	0.12			46.24	0.72
	29	**Tue**	6.9	87	14	1.25	2.06	0.00		7.90			20		1.34			0.05	0.12				0.80
	30	**Wed**	6.7	99	13	1.70	1.89	0.00		6.90			82		1.34	4.70	6.04	0.05	0.12	3.60	3.60	40.42	0.77
	31	**Thu**	7.7	99	15	1.40	1.42	0.00		7.11	145.00		52	0.33	1.08	5.90	6.98	0.05	0.11			53.61	0.84
Average			7.6	97	17	0.80	0.97	0.00	0.0	7.2	121	0.0	32	0.29	1.2	5.6	4.0	0.05	0.11	5	2	30.5	0.81
Total			236.6	3008	536																	945.9	25.21
Std. Dev.			0.9	10	6	0.27	0.41	0.01	0.0	0.2	16	0.0	14	0.07	0.1	0.8	3.4	0.01	0.01	5	2	26.8	0.13
n			31.0	31	31	31	31	31	1	31	5	1	31	15	31	18	31	31	31	5	5	31	31
Minimum			5.1	78	10	0.46	0.20	0	0	6.9	100	0	20	0.16	1.08	4.3	0.0	0.03	0.095	0	0	0.0	0.58
Maximum			9.1	114	48	1.7	2.06	0.05	0	7.9	145	0	82	0.41	1.4	7.3	8.4	0.07	0.14	15	4	70.9	1.28
Permit Limits	**Daily Max**		18.2				0.50	0	10			10					6.0		2.0		50		
			16.2 a																0.25 [5]				

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006							Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_3 & NO_2 as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
September	**1**	**Thu**	6.7	100	15	1.25	0.92	0		7.1			81		1.1			0.04	0.11				0.74
	2	**0.00**	6.4	102	12	0.88	1.27	0		7.1			69	0.20	1.1	5.9	6.98	0.04	0.11			44.7	0.70
	3	**0.00**	6.1	84	13	0.70	0.83	0		7.0			85		1.1			0.03	0.11				0.67
	4	**0.00**	6.3	77	12	0.67	0.76	0		7.1			70	0.20	1.1	5.1	6.18	0.05	0.11			38.9	0.69
	5	**0.00**	6.7	86	14	0.81	0.86	0		7.2			61		1.1			0.05	0.11				0.73
	6	**0.00**	6.4	98	13	0.88	1.11	0					65		1.1			0.06	0.11	<3	<3		0.70
	7	**0.00**	11.4	97	12	0.80	1.02	0		7.4	117		124	0.2	1.1	5.2	6.34	0.05	0.09			72.3	1.03
	8	**Fri**	11.7	95	15	0.97	1.04	0		7.3			63		1.1			0.05	0.09				1.06
	9	**Sat**	12.4	92	14	0.87	0.90	0		7.2			47	0.17	1.14	5.5	6.64	0.04	0.09			82.2	1.11
	10	**Sun**	12.2	84	21	0.81	0.85	0.01		7.1			40		1.1			0.01	0.09				1.09
	11	**Mon**	11.5	50	16	0.67	0.72	0.01		7.3			44	0.24	1.1	6.2	7.34	0.05	0.09			84.4	1.03
	12	**Tue**	11.9	92	15	0.66	0.69	0.01		7.3			127		1.1			0.05	0.09				1.07
	13	**Wed**	11.2	81	18	0.51	0.82	0		7.2			105		1.1	4.9	6.04	0.06	0.09	<3	<3	67.4	1.00
	14	**Thu**	12.2	80	17	0.44	0.69	0		7.2	123		109	0.3	1.04	5.3	6.34	0.06	0.10			77.1	1.22
	15	**Fri**	11.8	79	16	0.41	0.71	0		7.2			109		1.04			0.07	0.10				1.18
	16	**Sat**	11.6	79	17	0.36	0.73	0		7.2			113	0.2	1.04	5.3	6.34	0.06	0.10			73.8	1.16
	17	**Sun**	11.5	78	19	0.31	1.00	0		7.0			83		1.0			0.06	0.10				1.15
	18	**Mon**	11.9	83	18	0.36	1.01	0		7.1			94	0.2	1.0	5.5	6.54	0.05	0.10			78.0	1.19
	19	**Tue**	11.7	119	23	0.42	1.53	0		7.1			58		1.0			0.05	0.10				1.17
	20	**Wed**	11.7	62	15	0.42	0.99	0	0.4	7.1		<5	59	0.2	1.0	5.2	6.24	0.05	0.10	<3	<3	73.1	1.17
	21	**Thu**	11.1	96	19	0.42	0.98	0		7.0	89		67	0.10	1.2	5.7	6.86	0.05	0.09			75.8	0.99
	22	**Fri**	11.0	92	20	0.39	1.29	0		7.1			57		1.2			0.04	0.09				0.99
	23	**Sat**	10.9	88	19	0.44	1.23	0		7.1			53	0.12	1.2	6.0	7.16	0.05	0.09			78.1	0.98
	24	**Sun**	9.9	89	18	0.40	1.30	0		7.1			53		1.2			0.05	0.09				0.89
	25	**Mon**	10.5	81	13	0.49	1.52	0		7.2			137	0.43	1.2	5.6	6.76	0.06	0.09			70.9	0.94
	26	**Tue**	11.2	87	20	0.55	1.48	0		7.3			62		1.2			0.05	0.09				1.01
	27	**Wed**	10.3	81	23	0.54	0.88	0		7.2			47		1.2	6.0	7.16	0.06	0.09	<3	<3	73.6	0.93
	28	**Thu**	11.3	85	21	0.60	0.91	0		7.2	95		71	0.24	1.2	6.1	7.26	0.07	0.10			82.1	1.13
	29	**Fri**	10.5	88	18	0.59	0.95	0		7.2			46		1.2			0.06	0.10				1.05
	30	**Sat**	11.4	77	22	1.00	1.50	0		7.2			63		1.2			0.06	0.10				1.14
Average			10.4	86	17	0.62	1.02	0	0.4	7.2	106	0.0	75	0.21	1.1	5.6	3.3	0.05	0.10	0	0	35.7	1.00
Total			311.3	2582	508																	1072.4	29.94
Std. Dev.			2.1	12	3	0.23	0.26	0	0	0.1	14	0	27	0.08	0.05	0.4	3.4	0.01	0.01	0	0	36.8	0.17
n			30.0	30	30	30	30	30	1	29	4	1	30	13	30	15	30	30	30	4	4	30	30
Minimum			6.1	50	12	0.31	0.69	0	0.4	6.97	89	0	40	0.10	1.0	4.9	0.0	0.01	0.09	0	0	0.0	0.67
Maximum			12.4	119	23	1.25	1.53	0.01	0.4	7.41	123	0	137	0.4	1.2	6.2	7.3	0.1	0.11	0	0	84.4	1.22
Permit Limits	**Daily Max**		18.2				0.50	0	10			10					6.0		2.0		50		
			16.2 a																0.25 [b]				

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006							Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_3 & NO_2 as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
October	1	Fri	11.7	78	20	0.63	1.54	0.0		7.1			58		1.16			0.06	0.10				1.17
	2	Sat	10.7	80	24	0.72	1.35	0.0		7.2			72	0.31	1.2	5.8	7.0	0.05	0.10			74.2	1.07
	3	0.00	11.2	80	24	0.75	2.59	0.0		7.1			73		1.2			0.05	0.10				1.12
	4	0.00	11.8	81	28	0.76	2.15	0.0		7.1			84		1.16			0.06	0.10	4	4		1.18
	5	0.00	11.0	82	26	0.81	1.49	0.0		6.8	97		66	0.26	1.24	6.7	7.9	0.07	0.10			87.5	1.10
	6	0.00	10.7	78	25	0.76	0.95	0.0		7.0			62		1.24			0.07	0.10				1.07
	7	0.00	11.0	75	30	0.76	0.96	0.0		6.8			20	0.20	1.24	5.9	7.1	0.06	0.10			78.3	1.10
	8	0.00	11.2	73	23	0.67	0.78	0.0		6.9			52		1.24			0.07	0.10				1.12
	9	Sun	10.6	78	26	0.71	1.12	0.0		7.0			57	0.20	1.24	5.8	7.0	0.07	0.10			74.3	1.06
	10	Mon	10.7	80	26	0.79	2.37	0.0		7.1			57		1.2			0.08	0.10				1.07
	11	Tue	10.6	79	25	0.72	1.23	0.0		7.0			58		1.2			0.09	0.10	<3	<3		1.06
	12	Wed	10.6	79	25	0.61	1.05	0.0		7.0	145		45	0.41	0.9	5.6	6.5	0.07	0.10			68.8	1.06
	13	Thu	8.6	84	20	0.40	0.90	0.0		7.1			54		0.90			0.05	0.10				0.86
	14	Fri	8.5	78	20	0.46	1.08	0.0		7.1			57	0.15	0.90	6.9	7.8	0.05	0.10			66.5	0.85
	15	Sat	9.3	77	19	0.47	1.10	0.0		7.0			91		0.90			0.06	0.10				0.93
	16	Sun	8.6	79	21	0.48	0.63	0.0		7.1			84	0.23	0.90	5.5	6.4	0.06	0.10			55.0	0.86
	17	Mon	9.1	83	22	0.53	0.71	0.0		7.0					0.90			0.06	0.10				0.91
	18	Tue	8.7	83	20	0.43	1.24	0.0	4.0	7.3	323	<5		0.03	0.90	6.0	6.9	0.03	0.10	4	<3	60.4	0.87
	19	Wed	8.5	84	7	0.49	1.05	0.0		7.1			86	0.14	0.82	6.2	7.0	0.06	0.10			59.6	0.85
	20	Thu	11.0	84	8	0.46	1.03	0.0		6.9			83		0.82			0.05	0.10				1.10
	21	Fri	8.9	84	21	0.36	1.15	0.0		6.8			105		0.82			0.05	0.10				0.89
	22	Sat	7.9	77	19	0.31	1.52	0.0		6.9			86		0.82			0.05	0.10				0.79
	23	Sun	8.5	89	19	0.36	0.92	0.0		6.9			90	0.23	0.82	5.7	6.5	0.18	0.10			55.2	0.85
	24	Mon	11.1	83	27	0.39	0.97	0.0		6.9			83		0.82			0.06	0.10				1.11
	25	Tue	11.2	75	26	0.33	0.99	0.0		7.0	95		83	0.21	0.82	6.1	6.9	0.06	0.10	<3	<3	77.4	1.12
	26	Wed	11.4	68	28	0.32	0.70	0.0		7.0			70	0.02	0.96	6.5	7.5	0.05	0.08			84.9	0.91
	27	Thu	11.9	91	28	0.32	0.94	0.0		7.0			70		0.96			0.05	0.08				0.95
	28	Fri	11.4	84	27	0.31	1.11	0.0		7.0			48		0.96			0.04	0.08				0.91
	29	Sat	11.4	84	28	0.31	1.20	0.0		7.1			51		0.96			0.05	0.08				0.91
	30	Sun	11.4	82	28	0.32	1.05	0.0		7.0			41	0.02	0.96	6.0	7.0	0.05	0.08			79.2	0.91
	31	Mon	12.2	78	30	0.35	1.80	0.0		7.0			27		0.96			0.05	0.08				0.98
Average			10.4	80	23	0.52	1.22	0	4.0	7.0	165	0.0	66	0.19	1.00	6.1	3.0	0.06	0.10	1.8	1	29.7	0.99
Total			321.1	2490	720																	921.1	30.72
Std. Dev.			1.3	4	5	0.18	0.46	0	0.0	0.1	93	0.0	20	0.11	0.16	0.4	3.5	0.02	0.01	1.8	1.6	35.6	0.11
n			31.0	31	31	31	31	31	1	31	4	1	29	13	31	13	31	31	31	4	4	31	31
Minimum			7.9	68	7	0.31	0.63	0	4	6.79	95	0.0	20	0.02	0.82	5.5	0.0	0.03	0.08	0	0	0	1
Maximum			12.2	91	30	0.8	2.59	0.03	4	7.31	323.2	0	105	0.41	1.2	6.9	7.9	0.18	0.10	4	4	87.5	1.18
Permit Limits	**Daily Max**		18.2				0.50	0	10			10					6.0		2.0		50		
			16.2 a																0.25 [5]				

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006							Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_2 & NO_3 as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
November	1	Sun	12.1	89	29	0.33	1.29	0.0		7.0	115		86	0.33	1.0	6.8	7.8	0.04	0.08	<3	<3	93.6	0.96
	2	Mon	11.9	75	29	0.34	0.97	0.0		6.9			138	0.27	1.1	6.6	7.7	0.04	0.08			91.4	0.95
	3	Tue	11.4	77	27	0.31	0.87	0.0		6.8			103		1.06			0.05	0.08				0.91
	4	0.00	12.9	72	32	0.25	0.90	0.0		6.9			122		1.06			0.05	0.08				1.03
	5	0.00	13.0	82	29	0.21	0.70	0.0		6.9			90		1.06			0.06	0.08				1.04
	6	0.00	13.2	75	34	0.30	1.22	0.0		6.9			116	0.37	1.06	5.1	6.2	0.06	0.08			81.0	1.05
	7	0.00	13.7	79	33	0.30	1.80	0.0		6.5			147		1.06			0.08	0.08				1.10
	8	0.00	13.0	80	32	0.24	0.88	0.0		6.9	83		59	<.02	1.06	6.7	7.8	0.06	0.08	<3	<3	100.9	1.04
	9	0.00	13.1	77	31	0.23	0.88	0.0		7.0			48	<.02	0.98	6.6	7.6	0.08	0.15			99.1	1.96
	10	Wed	13.1	78	34	0.27	1.19	0.0		7.0			59		0.98			0.10	0.15				1.96
	11	Thu	13.0	80	28	0.27	1.13	0.0		7.0			57		0.98			0.12	0.15				1.94
	12	Fri	10.9	78	28	0.26	1.24	0.0		7.0			46		0.98			0.14	0.15				1.63
	13	Sat	12.8	77	29	0.26	1.01	0.0		7.0			60	0.32	0.98	6.8	7.8	0.11	0.15			99.9	1.93
	14	Sun	12.8	76	31	0.30	1.59	0.0		7.0			63		0.98			0.11	0.15				1.92
	15	Mon	13.6	72	32	0.27	1.68	0.0		6.8	86		72	0.41	0.98	5.5	6.5	0.12	0.15	<3	<3	88.1	2.04
	16	Tue	13.4	79	35	0.30	2.86	0.0		6.9			79	0.84	1.29	5.4	6.7	0.21	0.21			89.9	2.82
	17	Wed	12.4	67	36	0.32	2.60	0.0		7.0			60		1.3			0.19	0.21				2.61
	18	Thu	15.3	66	38	0.31	0.48	0.0		6.9			96		1.3			0.23	0.21				3.20
	19	Fri	12.1	63	35	0.30	0.53	0.0		6.9			63		1.3			0.14	0.21				2.53
	20	Sat	11.6	62	31	0.35	0.42	0.0		7.2			87	1.0	1.29	5.1	6.4	0.11	0.21			74.1	2.44
	21	Sun	11.9	75	24	0.37	0.66	0.0		6.9			84		1.3			0.08	0.21				2.51
	22	Mon	11.3	72	21	0.42	0.98	0.0		6.9	95		53	0.21	1.3	7.0	8.3	0.08	0.21	<3	<3	94.0	2.38
	23	Tue	11.1	74	21	0.40	1.02	0.0		7.0			41		1.0			0.04	0.08				0.89
	24	Wed	11.7	78	20	0.49	1.73	0.0		6.7			50		1.0			0.04	0.08				0.93
	25	Thu	11.5	80	19	0.52	1.01	0.0		6.8			36		1.0			0.05	0.08				0.92
	26	Fri	10.8	72	21	0.51	1.22	0.0		6.8			47		1.0			0.03	0.08				0.86
	27	Sat	10.7	75	13	0.51	1.05	0.0		6.9			51	0.05	1.0	6.8	7.8	0.04	0.08			83.5	0.86
	28	Sun	10.8	74	18	0.46	1.56	0.0	<0.4	7.0	98	<5	51	0.2	1.0	7.1	8.1	0.04	0.08			87.5	0.87
	29	Mon	10.8	75	20	0.42	1.90	0.0		7.0				0.1	2.3			0.05	0.12	<3	<3		1.29
	30	Tue	12.1	77	18	0.41	2.22	0.0		7.1			92	1.16	2.33	6.7	9.0	0.06	0.12			108.9	1.45
Average			12.3	75	28	0.34	1.25	0.00	0.0	6.9	95	0.0	74	0.37	1.2	6.3	3.2	0.09	0.13	0.0	0.0	39.7	1.60
Total			367.9	2256	828																	1192	48
Std. Dev.			1.1	5	6	0.09	0.58	0.00	0.0	0.1	11	0	29	0.36	0.3	0.7	3.8	0.05	0.05	0	0	46	1
n			30.0	30	30	30	30	30	1	30	5	1	29	14	30	13	30	30	30	6	5	30	30
Minimum			10.7	62	13.0	0	0.42	0	0	6.5	82.5	0	36	0.00	0.96	5.1	0.0	0.03	0.08	0	0	0.0	0.86
Maximum			15.3	89	38.0	0.52	2.86	0.01	0	7.23	115	0	147	1.2	2.3	7.1	9.0	0.23	0.2	0	0	108.9	3.20
Permit Limits	Daily Max		18.2				0.50	0	10			10					6.0		2.0		50		
			16.2 a																0.25 [b]				

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006							Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_3^- & NO_2 as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
December	1	**Mon**	12.5	74	20	0.38	2.97	0.10		7.1			79		2.33			0.07	0.12				1.50
	2	**Tue**	10.5	60	25	0.36	2.69	0.20		6.8			94		2.3			0.09	0.12				1.26
	3	**Wed**	11.2	55	37	0.35	2.44	0.01		7.0			106		2.33			0.09	0.12				1.34
	4	**Thu**	11.9	58	41	0.35	1.10	0.00		7.1			92	2.29	2.33	3.9	6.2	0.06	0.12			73.8	1.42
	5	**0.00**	12.4	54	40	0.35	1.59	0.01		6.98			97		2.33			0.05	0.12				1.49
	6	**0.00**	11.7	49	23	0.31	1.46	0.00		7.15			62	0.25	2.33	6.3	8.6	0.05	0.12	3.6	<3.0	100.6	1.40
	7	**0.00**	12.0	70	42	0.42	0.50	0.00		7.1			39	0.10	1.1	6.5	7.6	0.02	0.08			91.2	0.96
	8	**0.00**	12.1	67	23	0.41	0.94	0.00		7.1			49		1.1			0.04	0.08				0.97
	9	**0.00**	13.0	65	22	0.48	1.56	0.00		7.1			58		1.1			0.02	0.08				1.04
	10	**0.00**	13.0	61	26	0.50	1.07	0.00		7.1			47		1.10			0.03	0.08				1.04
	11	**Fri**	12.4	60	21	0.51	2.04	0.00		7.1			63	0.19	1.1	5.9	7.0	0.02	0.08			86.6	0.99
	12	**Sat**	14.1	71	22	0.50	2.92	0.00		7.0			69		1.1			0.03	0.08				1.13
	13	**Sun**	14.3	62	27	0.51	1.23	0.00		7.0	81.6		64	0.23	1.1	5.1	6.2	0.03	0.08	<3	<3	88.5	1.14
	14	**Mon**	15.2	66	26	0.51	0.89	0.00		7.0			42	0.22	1.12	4.6	5.7	0.04	0.08			86.7	1.21
	15	**Tue**	12.2	60	24	0.49	1.96	0.00		7.1			59		1.12			0.04	0.08				0.98
	16	**Wed**	10.6	76	26	0.51	2.51	0.00		7.0			39		1.12			0.05	0.08				0.85
	17	**Thu**	10.6	61	23	0.46	1.29	0.00		6.9			63		1.12			<.02	0.08				0.85
	18	**Fri**	10.6	67	25	0.51	1.37	0.01		7.0			63	0.29	1.12	4.6	5.7	0.03	0.08			60.6	0.85
	19	**Sat**	10.6	65	24	0.53	2.12	0.01		7.07			53		1.12			0.03	0.08				0.85
	20	**Sun**	10.6	53	23	0.55	1.86	0.01		7.0	95		20	0.29	1.1	5.6	6.7	0.03	0.08	<3	<3	71.2	0.85
	21	**Mon**	10.6	56	27	0.62	2.09	0.00		7.0			20	0.59	1.72	5.9	7.6	0.03	0.09			80.8	0.95
	22	**Tue**	10.6	55	26	0.61	2.04	0.00		7.0			20	0.8	1.72			0.02	0.09				0.95
	23	**Wed**	10.6	55	27	0.61	1.89	0.00		7.0			20		1.72			0.02	0.09				0.95
	24	**Thu**	10.6	58	28	0.66	1.51	0.00		7.0			20		1.72			0.02	0.09				0.95
	25	**Fri**	10.6	53	20	0.67	1.11	0.00		7.03			40		1.72			0.02	0.09				0.95
	26	**Sat**	10.6	54	19	0.63	0.87	0.00		7.03			31	0.2	1.72	6.8	8.5	0.02	0.09			90.3	0.95
	27	**Sun**	10.6	51	19	0.63	1.58	0.00	<0.4	7.0	85	<5	35	0.47	1.72	5.8	7.5	0.03	0.09	<3	<3	79.7	0.95
	28	**Mon**	10.6	56	21	0.62	1.84	0.00		7.0			20	0.56	1.61	6.2	7.8	0.02	0.14			82.8	1.48
	29	**Tue**	10.6	56	30	0.58	1.50	0.00		6.9			20		1.61			0.02	0.14				1.48
	30	**Wed**	10.6	53	9	0.64	1.67	0.16		6.9			51		1.61			0.03	0.14				1.48
	31	**Thu**	10.6	57	21	0.60	1.62	0.01		6.96			33		1.6			0.03	0.14				1.48
Average			11.5	60	25	0.51	1.68	0	0.0	7.0	87	0.0	51	0.50	1.5	5.6	2.8	0.03	0.10	0.9	0.0	32.0	1.12
Total			357.9	1858	787																	992.9	34.73
Std. Dev.			1.3	7	7	0.10	0.60	0	0.0	0.1	6	0	25	0.55	0.46	0.8	3.5	0.02	0.02	1.6	0.0	40.8	0.24
n			31.0	31	31	31	31	31	1	31	3	1	31	13	31	12	31	31	31	4	4	31	31
Minimum			10.5	49	9	0.31	0.50	0	0	6.8	81.6	0	20	0.10	1.1	3.9	0.0	0.00	0.08	0	0	0.0	0.85
Maximum			15.2	76	42	0.67	2.97	0.2	0.0	7.15	95	0	106	2.3	2.3	6.8	8.6	0.09	0.14	4	0	100.6	1.50
Permit Limits	**Daily Max**		18.2				0.50	0	10			10					6.0		2.0		50		
			16.2 a																0.25 [b]				

City of Penticton Advanced Wastewater Treatment Plant: Effluent

2006						Grab sample		24 hour composite sample											Grab sample		Loadings	
			Effluent	Cl_2 Usage (Kg/day)	SO_2 Usage (Kg/Day)	Turbidity (NTU)	Total Chlorine before Dechlor.	Total Chlorine after Dechlor.	S.S.	pH	Alk. as $CaCO_3$	$TBOD_5$	COD, Mn III Mthd	NH_3 as N	TKN as N	NO_3 & NO_2 as N	Total N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	Total N (Kg/Day)	Total P (Kg/Day)
Annual																						
Average			10.8	69	21	0.75	1.21	0.008	0.5	7.1	113	0	41	0.50	1.49	5.4	3.3	0.05	0.11	5	0.7	34.6	1.0
Total			3959.8	25183	7586																12646.733	373
Std. Dev.			1.9	18	13	0.37	0.47	0.06	1.1	0.2	39	0	26	0.71	0.47	0.9	3.6	0.03	0.03	12	1	38.9	0.5
n			365.0	365	365	365	365	365	14	362	40	12	354	180	335	181	363	365	331	55	52		
99 Percentile																			0.21				
90 Percentile																			0				

City of Penticton
Advanced Wastewater Treatment Plant
Reclaimed Irrigation Water

2006			Flow M^3/day	Total Chlorine Residual	Total Coliform (/100 mL or MPN)	Faecal (/100 mL)
April	1	0.00	99	1.86		
	2	0.00	99	1.48		
	3	0.00	0	1.22		
	4	Sat	2720	1.07		
	5	Sun	2521	0.92		
	6	Mon	2571	1.29		
	7	Tue	2805	0.78		
	8	Wed	2300	2.20		
	9	Thu	1613	1.88		
	10	Fri	2620	2.08		
	11	Sat	1747	1.44		
	12	Sun	1941	2.23		
	13	Mon	1635	2.28		
	14	Tue	1812	1.34		
	15	Wed	2188	1.45		
	16	Thu	2139	1.32		
	17	Fri	2183	0.70		
	18	Sat	1508	1.75		
	19	Sun	2376	2.20	0.0	0.0
	20	Mon	2262	2.23		
	21	Tue	2883	1.63		
	22	Wed	2380	1.53		
	23	Thu	2397	1.36		
	24	Fri	2451	1.24		
	25	Sat	2995	1.51		
	26	Sun	2474	1.40	1.0	0.0
	27	Mon	3275	1.36		
	28	Tue	61	1.57		
	29	Wed	2814	1.62		
	30	Thu	2165	1.60		
Average			2034	1.55	0.5	0.0
Total			61	0.05	0.0	0.0
Std. Dev.			874	0.42	0.5	0.0
n			30	30.00	2.0	2.0
Minimum			0	0.70	0.0	0.0
Maximum			3275	2.28	1.0	0.0

Chlorine sampled from north west corner of contact tank prior to entering piping to WWTP pump house.

Coliform samples from Penticton Golf Club irrigation system.

City of Penticton
Advanced Wastewater Treatment Plant
Reclaimed Irrigation Water

2006			Flow M^3/day	Total Chlorine Residual	Total Coliform (/100 mL or MPN)	Faecal (/100 mL)
May	1	0.00	3247	1.64		
	2	0.00	1187	1.64		
	3	0.00	2976	1.60		
	4	0.00	2976	1.57	2.0	0.0
	5	Mon	3202	1.57		
	6	Tue	3412	1.54		
	7	Wed	3412	1.70		
	8	Thu	2542	1.73		
	9	Fri	2507	1.60		
	10	Sat	2507	1.79	2.0	0.0
	11	Sun	3595	1.63		
	12	Mon	3141	1.64		
	13	Tue	2796	1.63		
	14	Wed	3057	1.60		
	15	Thu	3316	1.64		
	16	Fri	3152	1.63		
	17	Sat	3720	1.50	49.0	0.0
	18	Sun	3371	2.10		
	19	Mon	3330	1.99		
	20	Tue	3330	1.64		
	21	Wed	2496	1.57		
	22	Thu	2606	1.59		
	23	Fri	2605	1.53		
	24	Sat	2605	1.58	1800.0	0.0
	25	Sun	2227	1.58		
	26	Mon	2370	1.61		
	27	Tue	2381	1.59		
	28	Wed	2389	1.61		
	29	Thu	2385	1.63		
	30	Fri	2638	1.59		
	31	Sat	2687	1.14	3400.0	0.0
Average			2844	1.63	1050.6	0.0
Total			88	0.05	5.3	0.0
Std. Dev.			513	0.15	1362.6	0.0
n			31	31.00	5.0	5.0
Minimum			1187	1.14	2.0	0.0
Maximum			3720	2.10	3400.0	0.0

Chlorine sampled from north west corner of contact tank prior to entering piping to WWTP pump house.

Coliform samples from Penticton Golf Club irrigation system.

City of Penticton
Advanced Wastewater Treatment Plant
Reclaimed Irrigation Water

2006			Flow M^3/day	Total Chlorine Residual	Total Coliform (/100 mL or MPN)	Faecal (/100 mL)
June	**1**	**0.00**	3060	1.57		
	2	**0.00**	3254	1.55		
	3	**0.00**	2446	1.53		
	4	**0.00**	2382	1.65		
	5	**0.00**	2593	1.48		
	6	**Thu**	2594	1.56		
	7	**Fri**	2594	1.49	overgrown	0.0
	8	**Sat**	3278	1.57		
	9	**Sun**	1460	1.59		
	10	**Mon**	2354	1.54		
	11	**Tue**	2371	1.54		
	12	**Wed**	2371	1.56		
	13	**Thu**	2436	1.56		
	14	**Fri**	2134	1.55	3300.0	0.0
	15	**Sat**	2284	1.43		
	16	**Sun**	2284	1.54		
	17	**Mon**	2340	1.55		
	18	**Tue**	2348	1.55		
	19	**Wed**	2283	1.62		
	20	**Thu**	2839	1.55		
	21	**Fri**	3623	1.53	610.0	0.0
	22	**Sat**	3185	1.61		
	23	**Sun**	3385	1.60		
	24	**Mon**	3058	1.60		
	25	**Tue**	3172	1.61		
	26	**Wed**	3764	1.50		
	27	**Thu**	4047	1.61		
	28	**Fri**	4049	2.12	9.0	1.0
	29	**Sat**	4254	1.56		
	30	**Sun**	4254	2.02		
Average			2883	1.59	979.8	0.3
Total			86	0.05	3.9	0.0
Std. Dev.			696	0.14	1362.2	0.4
n			30	30.00	4.0	4.0
Minimum			1460	1.43	0.0	0.0
Maximum			4254	2.12	3300.0	1.0

Chlorine sampled from north west corner of contact tank prior to entering piping to WWTP pump house.

Coliform samples from Penticton Golf Club irrigation system.

City of Penticton
Advanced Wastewater Treatment Plant
Reclaimed Irrigation Water

2006			Flow M^3/day	Total Chlorine Residual	Total Coliform (/100 mL or MPN)	Faecal (/100 mL)
July	**1**	**0.00**	3713	2.02		
	2	**0.00**	3465	2.16		
	3	**0.00**	3967	1.90		
	4	**0.00**	3955	2.33		
	5	**0.00**	3984	2.41	12.0	0.0
	6	**0.00**	3038	2.50		
	7	**Sat**	2423	2.30		
	8	**Sun**	2218	2.20		
	9	**Mon**	2125	2.35		
	10	**Tue**	3313	2.22		
	11	**Wed**	3827	2.23		
	12	**Thu**	3431	2.36	4.0	1.0
	13	**Fri**	3526	2.25		
	14	**Sat**	3234	2.41		
	15	**Sun**	2077	2.35		
	16	**Mon**	2792	2.35		
	17	**Tue**	3345	2.33		
	18	**Wed**	4106	2.31		
	19	**Thu**	3908	2.39	460.0	1.0
	20	**Fri**	4476	2.36		
	21	**Sat**	4130	2.48		
	22	**Sun**	3945	2.26		
	23	**Mon**	250	2.26		
	24	**Tue**	3331	2.29		
	25	**Wed**	4012	2.52		
	26	**Thu**	4261	2.27	9.1	<3
	27	**Fri**	4478	2.15		
	28	**Sat**	4752	1.84		
	29	**Sun**	3948	2.39		
	30	**Mon**	3786	2.29		
	31	**Tue**	4409	2.48		
Average			3491	2.29	121.3	0.5
Total			108	0.07	0.5	0.0
Std. Dev.			907	0.15	195.6	0.5
n			31	31.00	4.0	4.0
Minimum			250	1.84	4.0	0.0
Maximum			4752	2.52	460.0	1.0

Chlorine sampled from north west corner of contact tank prior to entering piping to WWTP pump house.
Coliform samples from Penticton Golf Club irrigation system.

City of Penticton
Advanced Wastewater Treatment Plant
Reclaimed Irrigation Water

2006			Flow M^3/day	Total Chlorine Residual	Total Coliform (/100 mL or MPN)	Faecal (/100 mL)
August	**1**	**Mon**	4409	3.04		
	2	**0.00**	3631	2.81	23.0	<3
	3	**0.00**	3588	2.40		
	4	**0.00**	3201	2.52		
	5	**0.00**	3201	2.42		
	6	**0.00**	3433	2.32		
	7	**0.00**	3751	2.29		
	8	**Tue**	3783	2.31		
	9	**Wed**	4050	2.36	20.0	<3
	10	**Thu**	3688	2.43		
	11	**Fri**	3133	2.35		
	12	**Sat**	2613	2.32		
	13	**Sun**	2739	2.00		
	14	**Mon**	2689	2.29		
	15	**Tue**	2641	2.25		
	16	**Wed**	2884	2.28	43.0	<3
	17	**Thu**	3483	2.07		
	18	**Fri**	3869	2.25		
	19	**Sat**	2791	2.23		
	20	**Sun**	3202	2.25		
	21	**Mon**	3434	2.25		
	22	**Tue**	3510	2.25		
	23	**Wed**	1997	2.19		
	24	**Thu**	2987	2.15		
	25	**Fri**	3930	2.38		
	26	**Sat**	3271	2.28		
	27	**Sun**	3098	2.18		
	28	**Mon**	3940	2.17		
	29	**Tue**	3154	2.57		
	30	**Wed**	4021	2.33	230.0	<3
	31	**Thu**	4021	2.39		
Average			3359	2.33	79.0	0.0
Total			104	0.07	0.3	0.0
Std. Dev.			529	0.20	87.6	0.0
n			31	31.00	4.0	4.0
Minimum			1997	2.00	20.0	0.0
Maximum			4409	3.04	230.0	0.0

Chlorine sampled from north west corner of contact tank prior to entering piping to WWTP pump house.
Coliform samples from Penticton Golf Club irrigation system.

City of Penticton
Advanced Wastewater Treatment Plant
Reclaimed Irrigation Water

2006			Flow M^3/day	Total Chlorine Residual	Total Coliform (/100 mL or MPN)	Faecal (/100 mL)
September	**1**	**Thu**	3800	2.24		
	2	**0.00**	3171	2.49		
	3	**0.00**	2968	2.43		
	4	**0.00**	3224	2.42		
	5	**0.00**	3012	2.42		
	6	**0.00**	3725	2.43	4600.0	<3
	7	**0.00**	2980	2.74		
	8	**Fri**	3052	2.58		
	9	**Sat**	2628	1.36		
	10	**Sun**	2473	1.02		
	11	**Mon**	2942	1.33		
	12	**Tue**	2654	1.29		
	13	**Wed**	2588	2.08	3.6	<3
	14	**Thu**	2305	2.10		
	15	**Fri**	2627	2.11		
	16	**Sat**	2562	2.11		
	17	**Sun**	2662	2.12		
	18	**Mon**	2650	2.10		
	19	**Tue**	2971	2.06		
	20	**Wed**	1941	2.20		
	21	**Thu**	2885	2.10		
	22	**Fri**	2678	2.10		
	23	**Sat**	2112	2.12		
	24	**Sun**	2953	2.00		
	25	**Mon**	2912	2.10		
	26	**Tue**	3064	2.10		
	27	**Wed**	3256	2.12	<3	<3
	28	**Thu**	2639	2.10		
	29	**Fri**	3112	2.10		
	30	**Sat**	2421	2.09		
Average			2832	2.09	1534.5	0.0
Total			85	0.06	4.6	0.0
Std. Dev.			398	0.37	2167.6	0.0
n			30	30.00	3.0	3.0
Minimum			1941	1.02	0.0	0.0
Maximum			3800	2.74	4600.0	0.0

Chlorine sampled from north west corner of contact tank prior to entering piping to WWTP pump house.
Coliform samples from Penticton Golf Club irrigation system.

City of Penticton
Advanced Wastewater Treatment Plant
Reclaimed Irrigation Water

2006			Flow M^3/day	Total Chlorine Residual	Total Coliform (/100 mL or MPN)	Faecal (/100 mL)
October	1	Fri	2435	2.10		
	2	Sat	2925	2.11		
	3	0.00	2792	2.48		
	4	0.00	2390	2.08	<3	<3
	5	0.00	2647	1.88		
	6	0.00	3042	1.77		
	7	0.00	2682	1.95		
	8	0.00	2803	2.01		
	9	Sun	2618	1.92		
	10	Mon	2792	2.38		
	11	Tue	2333	1.82	<3	<3
	12	Wed	2530	2.00		
	13	Thu	2510	3.90		
	14	Fri	2174	2.26		
	15	Sat	2529	2.03		
	16	Sun	2521	2.40		
	17	Mon	2352	2.20		
	18	Tue	2459	2.30	<3	<3
	19	Wed	2613	2.24		
	20	Thu	493	2.18		
	21	Fri	1970	2.58		
	22	Sat	2567	2.78		
	23	Sun	2827	2.09		
	24	Mon	391	2.06		
	25	Tue	391	2.08		
	26	Wed	0	2.16		
	27	Thu	0	2.18		
	28	Fri	0	2.16		
	29	Sat	0	2.10		
	30	Sun	0	2.11		
	31	Mon	0	2.09		
Average			1864	2.21	0.0	0.0
Total			58	0.07	0.0	0.0
Std. Dev.			1126	0.37	0.0	0.0
n			31	31.00	3.0	3.0
Minimum			0	1.77	0.0	0.0
Maximum			3042	3.90	0.0	0.0

Chlorine sampled from north west corner of contact tank prior to entering piping to WWTP pump house.
Coliform samples from Penticton Golf Club irrigation system.

City of Penticton Advanced Wastewater Treatment Plant
Impact Monitoring of Okanagan River Channel

			Upstream Sampling Location: East bank of Okanagan River from Coyote Cruises loading site										Downstream Sampling Location: West bank of Okanagan River off landing upstream of Shingle Creek									
2006			S.S.	pH	Temp, °C	NH_3 as N	TKN as N	NO_3^- & NO_2^- as N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)	S.S.	pH	Temp, °C	NH_3 as N	TKN as N	NO_3^- & NO_2^- as N	Ortho-P as P	Total P	Total Coliform (/100 mL)	Faecal (/100 mL)
January	9	Wed	<0.4	8.2	3.6	<0.02	0.24	0.03	<0.02	0.16	44	40	<0.4	8.2	3.8	<0.02	0.38	0.05	<0.02	0.11	38	27
February	1	Wed	<0.4	8.4	4.1	<0.02	0.26	0.02	<0.02	<0.02	40	15	<0.4	8.1	4.1	<0.02	0.25	0.02	<0.02	<0.02	76	49
March	22	Wed	1.00	8.4	4.0	<0.02	0.24	0.02	<0.02	<0.02	4	0	1.20	8.5	4.0	<0.02	0.22	<0.02	0.02	<0.02	6	0
April	19	Wed	<0.4	8.3	4.7	<0.02	0.26	<0.02	<0.02	<0.02	1	0	<0.4	8.3	4.7	0.02	0.12	0.04	<0.02	<0.02	31	1
May	17	Wed	0.6	8.6	13.5	0.03	0.20	0.02	0.03	0.03	12	3	0.4	8.7	13.3	<0.02	0.24	<0.02	<0.02	<0.02	91	4
June	21	Wed	3.4	8.8	16.7	0.06	0.20	0.03	<0.02	<0.02	34	4	<.4	8.9	16.8	0.05	0.20	0.03	0.02	0.02	32	8
July	19	Wed	0.40	8.8	22.6	0.04	0.11	0.03	<0.02	<0.02	20	1	0.40	8.8	22.5	0.05	0.11	0.02	<0.02	<0.02	56	36
August	23	Wed	12.0	8.8	21.7	0.04	0.26	0.02	<0.02	<0.02	49	22	4.0	8.7	21.1	0.06	0.30	0.02	<0.02	<0.02	320	56
September	20	Wed	<.4	8.7	16.0	0.02	0.27	<0.02	0.02	<0.02	93	43	8.0	8.8	17.7	0.02	0.30	<0.02	0.02	0.09	230	43
October	18	Wed	6.0	8.6	13.0	0.03	0.27	<0.02	<0.02	<0.02	93	<3	22.0	8.6	12.8	0.05	0.28	<0.02	<0.02	0.02	230	15
November	29	Wed	6.60	8.4	1.2	0.03	0.25	0.05	<0.02	<0.02	1100	460	4.2	8.3	0.0	0.02	0.29	0.07	<0.02	0.02	43	43
December	13	Wed	6	8.3	3.7	0.02	0.20	0.02	<0.02	<0.02	93	93	4.0	8.3	3.6	0.02	0.32	0.03	<0.02	<0.02	240	240
Average			3.0	8.5	10.4	0.02	0.23	0.02	0.00	0.02	132	57	3.7	8.5	10.4	0.02	0.25	0.02	0.01	0.02	116	44
Std. Dev.			3.7	0.2	7.4	0.02	0.04	0.01	0.01	0.04	294	124	6.0	0.3	7.5	0.02	0.08	0.02	0.01	0.04	103	62
n			12	12.0	12.0	12.00	12.00	12.00	12.00	12.00	12	12	12	12.0	12.0	12.00	12.00	12.00	12.00	12.00	12	12
Minimum			0.0	8.2	1.2	0.00	0.11	0.00	0.00	0.00	1	0	0.0	8.1	0.0	0.00	0.11	0.00	0.00	0.00	6	0
Maximum			12.0	8.8	22.6	0.06	0.27	0.05	0.03	0.16	1100	460	22.0	8.9	22.5	0.06	0.38	0.07	0.02	0.11	320	240

Appendix B.13.

AWWTP 2006 Monthly Operational Data

Lift Station Hours

Jan-06	Wilson St.		Lee Ave.		Fairview		Front St.		Airport		Lakeside N.		Lakeside S.		Alberni		
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3
Min:	0.0	0.0	3.9	4.1	0.3	0.3	0.1	0.1	0.2	0.2	0.6	0.7	0.9	1.0	1.6	1.6	1.7
Max:	0.0	0.0	4.3	4.9	1.0	0.9	0.2	0.2	1.1	0.6	1.2	1.6	2.6	2.7	4.1	2.1	2.1
Average:	0.0	0.0	4.1	4.4	0.6	0.6	0.1	0.1	0.6	0.3	0.9	1.0	1.4	1.5	1.8	2.0	2.0
Total:	0.0	0.0	126.7	136.0	19.9	19.4	3.6	3.2	19.2	9.7	26.8	32.1	44.1	45.4	56.8	62.2	62.0
Jan-1	0.0	0.0	4.3	4.5	0.5	0.5	0.2	0.1	0.8	0.3	0.8	0.8	1.5	1.5	1.8	2.0	2.1
Jan-2	0.0	0.0	4.1	4.4	0.3	0.3	0.1	0.1	0.6	0.3	0.6	0.8	1.5	1.5	1.6	2.0	1.9
Jan-3	0.0	0.0	4.3	4.9	0.9	0.9	0.2	0.1	0.8	0.3	0.7	1.6	1.8	1.8	1.8	2.1	2.1
Jan-4	0.0	0.0	4.2	4.5	0.8	0.7	0.1	0.1	0.6	0.4	0.6	0.7	1.5	1.6	4.1	1.6	1.7
Jan-5	0.0	0.0	4.1	4.3	0.6	0.6	0.1	0.1	0.6	0.6	0.7	1.1	1.7	1.7	1.7	2.0	1.9
Jan-6	0.0	0.0	4.2	4.4	0.6	0.5	0.1	0.1	0.6	0.5	0.6	0.7	1.4	1.5	1.8	2.1	2.1
Jan-7	0.0	0.0	4.3	4.5	0.5	0.5	0.2	0.1	0.8	0.3	0.8	0.8	1.5	1.5	1.8	2.0	2.1
Jan-8	0.0	0.0	4.2	4.6	0.6	0.6	0.2	0.1	0.3	0.3	0.7	0.8	1.8	1.8	1.9	2.1	2.1
Jan-9	0.0	0.0	4.2	4.5	0.7	0.7	0.1	0.1	0.3	0.3	0.8	0.8	1.5	1.7	1.8	2.1	2.0
Jan-10	0.0	0.0	4.0	4.5	0.6	0.6	0.1	0.1	0.4	0.4	1.0	0.9	1.5	1.3	1.8	2.0	2.0
Jan-11	0.0	0.0	3.9	4.2	0.6	0.6	0.2	0.1	0.3	0.3	0.8	0.9	1.4	1.4	1.8	2.0	2.1
Jan-12	0.0	0.0	4.0	4.3	0.6	0.6	0.1	0.2	0.7	0.3	0.7	0.9	1.4	1.4	1.8	2.1	2.1
Jan-13	0.0	0.0	4.0	4.2	0.6	0.6	0.1	0.1	0.8	0.2	0.8	0.7	1.4	1.3	1.8	2.0	2.0
Jan-14	0.0	0.0	3.9	4.3	0.5	0.5	0.1	0.1	0.7	0.3	0.7	0.9	1.2	1.3	1.8	2.1	2.1
Jan-15	0.0	0.0	4.1	4.2	0.8	0.7	0.1	0.1	0.9	0.2	0.9	1.1	1.2	1.3	1.8	2.0	2.1
Jan-16	0.0	0.0	4.1	4.4	1.0	0.9	0.1	0.1	0.2	0.2	1.0	1.0	1.1	1.1	1.7	2.0	2.0
Jan-17	0.0	0.0	4.1	4.4	0.7	0.7	0.1	0.1	1.0	0.3	1.0	1.2	1.0	1.2	1.8	2.0	2.0
Jan-18	0.0	0.0	4.0	4.4	0.5	0.6	0.1	0.1	0.9	0.3	0.9	1.2	1.1	1.0	1.7	2.0	2.0
Jan-19	0.0	0.0	4.1	4.3	0.6	0.6	0.1	0.1	0.8	0.2	0.9	0.8	1.1	1.0	1.8	2.0	1.9
Jan-20	0.0	0.0	4.1	4.3	0.7	0.6	0.1	0.1	0.9	0.4	0.9	1.2	0.9	1.1	1.7	2.1	2.0
Jan-21	0.0	0.0	4.0	4.3	0.7	0.7	0.1	0.1	0.4	0.4	1.0	1.0	1.0	1.1	1.8	2.0	2.0
Jan-22	0.0	0.0	4.0	4.4	0.6	0.7	0.1	0.1	0.6	0.6	1.0	1.0	1.0	1.1	1.7	2.0	1.9
Jan-23	0.0	0.0	4.1	4.5	0.6	0.6	0.1	0.1	0.9	0.2	0.9	1.2	1.2	1.1	1.7	2.0	1.9
Jan-24	0.0	0.0	4.0	4.2	0.6	0.5	0.1	0.1	1.0	0.3	1.0	1.0	1.0	1.2	1.7	1.9	2.0
Jan-25	0.0	0.0	3.9	4.2	0.5	0.5	0.1	0.1	0.9	0.3	0.9	1.3	1.0	1.1	1.7	1.9	1.9
Jan-26	0.0	0.0	3.9	4.2	0.6	0.5	0.1	0.1	0.3	0.3	1.0	1.1	1.1	1.1	1.7	2.0	2.0
Jan-27	0.0	0.0	3.9	4.1	0.5	0.4	0.1	0.1	0.3	0.3	1.0	1.4	1.2	1.1	1.7	2.0	1.9
Jan-28	0.0	0.0	4.0	4.3	0.7	0.7	0.1	0.1	0.3	0.3	0.9	1.3	1.7	1.8	1.7	2.0	2.0
Jan-29	0.0	0.0	4.2	4.5	0.8	0.9	0.1	0.1	0.2	0.2	1.2	1.4	2.6	2.7	1.8	2.1	2.1
Jan-30	0.0	0.0	4.3	4.6	0.9	0.9	0.1	0.1	0.2	0.2	0.9	1.4	2.4	2.6	1.8	2.0	2.0
Jan-31	0.0	0.0	4.2	4.6	0.7	0.7	0.1	0.1	1.1	0.2	1.1	1.1	2.4	2.5	1.7	2.0	2.0

Jan-06	General					Headworks Primaries Fermenters												
	Natural Gas Totalizer	Elecrical Usage	Electrical Volts	OAT Temp min	OAT Temp max.	Influent Flow	Bar Screen Cycles	Train #1 Prim sludge to Ferm.	Ferm #1 Sludge to Digester	Ferm #1 HRT	Ferm #1 SRT	Ferm #1 Blanket Level	Ferm #2 Blanket Level	Train #2 Prim sludge to Ferm.	Ferm #2 Sludge to Digester	Ferm #2 HRT	Ferm #2 SRT
	(M^3/day)	MWH/day	Volts	Temp (°C)	Temp (°C)	ML / Day		(M^3/day)	(M^3/day)	Hours	Days	(Feet down from top)	(Feet down from top)	(M^3/day)	(M^3/day)	Hours	Days
Min:	46	5	469	-4.1	0.0	11.6	93	290	28	24	4	1	0	4	0	24	6
Max:	174	6	500	4.0	9.9	13.8	109	353	98	29	12	10	11	355	60	2154	18
Average:	88	6	493	1.4	4.8	13.0	100	336	44	25	8	6	6	329	39	93	9
Total:	2718	180		3.1		403.6	3102	10429	1372					10205	1216		
Jan-1	120	6	500	2.0	5.0	12.5	103	341	51	25	7	10	11	342	48	25	7
Jan-2	72	6	492	2.0	6.0	11.6	101	340	38	25	9	9	9	353	34	24	10
Jan-3	80	5	496	2.0	4.0	13.6	109	341	28	25	12	7	9	353	26	24	13
Jan-4	81	6	492	2.5	4.5	12.6	106	350	34	24	10	8	9	352	30	24	12
Jan-5	81	6	492	4.0	7.0	12.6	102	353	30	24	12	7	8	353	30	24	12
Jan-6	72	6	492	3.0	7.0	13.0	98	341	33	25	10	7	9	354	30	24	12
Jan-7	73	5	496	3.0	5.0	12.5	100	351	33	24	10	6	7	355	30	24	12
Jan-8	55	6	496	3.0	6.0	13.2	98	340	34	25	10	6	6	333	30	25	12
Jan-9	70	6	492	4.0	7.0	13.1	102	331	34	25	10	6	6	331	30	25	12
Jan-10	67	6	492	0.0	0.0	13.5	100	321	33	26	11	6	6	341	30	25	12
Jan-11	46	6	496	3.0	8.0	13.3	97	341	34	25	10	5	6	288	20	29	18
Jan-12	65	6	469	2.0	4.0	12.5	106	340	34	25	10	1	0	339	0	25	
Jan-13	93	5	496	3.7	7.2	13.1	108	341	79	25	4	3	0	354	35	24	10
Jan-14	70	6	492	0.5	7.7	12.9	95	341	50	25	7	7	3	345	45	24	8
Jan-15	69	6	496	-4.1	6.3	12.6	101	340	50	25	7	6	3	341	45	25	8
Jan-16	98	6	492	-1.1	3.1	13.1	100	331	50	25	7	4	7	352	55	24	6
Jan-17	97	5	496	0.9	3.5	13.4	102	341	51	25	7	5	5	353	60	24	6
Jan-18	85	6	492	0.0	2.2	12.9	94	340	50	25	7	6	5	351	45	24	8
Jan-19	87	6	492	-1.2	0.4	12.6	94	341	50	25	7	7	2	351	0	24	
Jan-20	105	6	496	-1.1	3.9	12.9	93	330	98	25	4	7	3	352	42	24	8
Jan-21	83	6	496	-0.5	1.1	13.0	98	330	44	25	8	6	6	290	60	29	6
Jan-22	109	6	500	0.0	3.0	13.3	102	350	44	24	8	6	7	341	60	25	6
Jan-23	122	6	490	1.3	4.4	13.0	95	341	44	25	8	5	6	354	60	24	6
Jan-24	109	6	492	1.2	5.5	13.8	106	330	44	25	8	5	7	354	60	24	6
Jan-25	68	5	496	0.0	0.0	13.5	98	320	44	26	8	5	7	354	60	24	6
Jan-26	65	6	492	3.1	5.0	13.4	97	290	43	29	8	7	9	353	60	24	6
Jan-27	90	6	488	2.7	5.8	13.2	97	310	44	27	8	7	8	328	60	26	6
Jan-28	92	6	488	1.3	6.0	13.1	103	341	44	25	8	7	10	353	46	24	8
Jan-29	141	5	496	1.4	4.4	12.8	97	341	44	25	8	7	11	4	26	2154	13
Jan-30	174	6	492	2.6	9.9	13.2	103	341	44	25	8	6	9	287	33	29	11
Jan-31	79	6	492	2.2	5.2	13.5	97	340	37	25	9	5	7	294	25	29	14

Jan-06	Digesters													
	Gas Prod.	Waste Gas Burned	Gas Pressure	Boiler Temp.	Boiler Pressure	Prim. Dig. HRT	Sec. Dig. HRT	Total Sludge to Dig.	Prim. Dig Temp.	Clarity of Supernate	Sec. Dig.	Sec. Dig. Blanket Depth	Sec. Dig. Supernate to plant
	(M^3/day)	(M^3/day)	"WC	°C	KPA	Days	Days	(M^3/day)	°C	1,2,3	# of rings	ft	(M^3/day)
Min:	0	0	5	40	150	28	24	34	32	1	0	0	-13
Max:	1231	414	8	73	190	98	29	185	37	3	3	8	140
Average:	580	115	7	55	158	44	25	117	35	1	1	5	54
Total:	17976	3560						3622					1673
Jan-1	916	414	7	52	152	51	25	182	32	1	3	0	122
Jan-2	736	196	7	50	155	38	25	156	33	3	2	0	16
Jan-3	707	28	6	55	155	28	25	108	34	1	0	0	-13
Jan-4	294	0	7	55	155	34	24	109	35	1	0	2	0
Jan-5	319	0	7	55	155	30	24	124	35	1	0	4	19
Jan-6	735	28	7	55	160	33	25	86	36	1	0	5	-4
Jan-7	349	1	7	65	170	33	24	63	37	1	0	7	42
Jan-8	310	31	7	70	180	34	25	64	37	1	0	6	63
Jan-9	331	49	7	65	180	34	25	64	37	1	0	8	64
Jan-10	917	174	7	73	190	33	26	108	37	1	0	6	64
Jan-11	511	28	7	73	190	34	25	54	37	1	0	7	18
Jan-12	0	390	7	40	150	34	25	34	35	1	0	8	54
Jan-13	258	1	6	55	160	79	25	129	36	1	0	8	34
Jan-14	481	316	7	55	155	50	25	95	35	1	1	8	110
Jan-15	802	267	7	50	155	50	25	129	35	2	2	3	95
Jan-16	625	210	7	51	150	50	25	156	35	2	2	4	61
Jan-17	1114	160	7	50	150	51	25	169	35	2	3	5	55
Jan-18	461	194	7	50	150	50	25	153	35	2	1	5	63
Jan-19	562	51	7	50	150	50	25	50	35	1	0	5	37
Jan-20	375	59	7	50	150	98	25	140	35	1	0	0	50
Jan-21	434	108	7	50	150	44	25	163	35	1	0	6	140
Jan-22	388	23	7	50	150	44	24	104	35	1	2	4	45
Jan-23	431	81	7	50	150	44	25	185	35	1	2	2	104
Jan-24	1231	151	7	50	150	44	25	176	35	1	1	7	23
Jan-25	429	121	7	50	150	44	26	162	34	1	1	6	42
Jan-26	456	68	7	50	150	43	29	162	34	1	1	7	46
Jan-27	912	139	7	50	150	44	27	137	34	1	0	6	46
Jan-28	772	116	8	72	180	44	25	90	34	1	0	6	71
Jan-29	628	72	7	50	150	44	25	70	34	2	1	2	90
Jan-30	569	67	7	52	155	44	25	109	35	2	2	5	70
Jan-31	923	17	5	52	150	37	25	91	36	1	2	5	45

Jan-06	Bioreactor #1				Bioreactor #2				Clarifiers				Effluent							
	T1 Cell 8a	T1 Cell 8b	T1 Cell 9a	T1 Cell 9b	T2 Cell8a	T2 Cell 8b	T2 Cell 9a	T2 Cell 9b	R.A.S. Clarifier 1	Sludge Blanket 1	R.A.S. Clarifier 2	Sludge Blanket 2	Effluent Flow	Irr. Flow	Cl2 Analyzer	End of Contact Chlorine	Effluent Chlorine	Cl_2	SO_2	Turbidity
	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	%	Depth (feet)	%	Depth (feet)	ML / Day	(M^3/day)	(mg/L)	(mg/l)	(mg/l)	(Kg/day)	(Kg/day)	NTU
Min:	1.8	1.4	1.4	1.0	0.9	1.2	1.0	0.5	0.71	1	0.67	6	11.4	0	0.8	0.7	0.0	43	13	0.25
Max:	2.8	3.9	3.9	4.2	2.9	2.7	4.3	3.6	0.83	9	0.81	9	13.3	0	1.8	2.1	0.6	71	25	1.27
Average:	2.3	2.2	2.2	2.2	2.1	2.1	2.7	2.0	0.78	7	0.76	8	12.2	0	1.3	1.1	0.0	60	19	0.72
Total:													378.1	0				1867	588	22.25
Jan-1	2.0	1.4	1.4	1.0	1.3	1.7	1.7	1.0	0.83	7	0.73	7	12.2	0	1.0	2.1	0.0	53	20	1.11
Jan-2	2.2	2.1	2.1	1.9	1.5	1.9	1.9	1.2	0.81	6	0.72	7	11.4	0	1.8	1.1	0.0	57	22	0.91
Jan-3	2.0	1.4	1.4	1.1	0.9	1.2	1.0	0.5	0.82	4	0.78	9	13.3	0	1.2	1.4	0.0	46	22	1.27
Jan-4	2.3	1.8	1.8	1.6	1.8	1.8	1.3	0.7	0.77	8	0.77	9	11.4	0	1.3	1.4	0.0	43	20	1.11
Jan-5	2.4	2.1	2.1	2.1	2.6	2.3	3.2	2.5	0.77	7	0.74	9	11.7	0	1.3	1.3	0.0	57	20	0.99
Jan-6	2.4	1.5	1.5	1.6	2.9	2.6	2.1	2.0	0.77	9	0.76	7	12.2	0	1.3	1.1	0.0	55	20	1.09
Jan-7	2.3	2.1	2.1	2.3	2.7	2.4	2.6	2.6	0.77	7	0.76	8	11.7	0	1.3	1.0	0.0	64	13	0.96
Jan-8	2.3	2.4	2.4	2.5	2.8	2.4	3.7	3.5	0.77	1	0.76	8	12.6	0	1.3	1.2	0.0	69	15	0.98
Jan-9	2.2	2.5	2.5	2.7	2.7	2.5	4.3	3.6	0.80	7	0.80	8	13.0	0	1.3	1.1	0.0	71	17	1.12
Jan-10	2.4	1.8	1.8	1.8	2.6	2.2	3.1	2.3	0.77	7	0.77	9	13.0	0	1.3	1.2	0.0	59	17	1.01
Jan-11	2.2	1.9	1.9	2.0	2.7	2.2	3.4	2.8	0.75	8	0.75	8	13.1	0	1.2	1.1	0.0	57	17	0.89
Jan-12	2.1	2.3	2.3	2.4	2.6	2.2	3.7	3.1	0.75	7	0.81	8	12.9	0	1.2	0.9	0.0	61	18	0.81
Jan-13	2.3	1.9	1.9	1.8	1.2	1.4	2.1	1.4	0.79	6	0.75	7	12.4	0	1.5	1.1	0.0	61	17	0.96
Jan-14	2.3	2.3	2.3	2.4	1.1	1.2	2.3	1.6	0.81	8	0.77	7	12.0	0	1.4	0.9	0.0	62	17	0.91
Jan-15	2.2	3.9	3.9	4.2	1.5	1.7	3.9	3.0	0.79	6	0.77	6	12.0	0	0.8	1.2	0.0	59	16	0.71
Jan-16	2.2	2.4	2.4	2.6	1.1	1.2	2.3	1.6	0.82	6	0.77	7	12.1	0	1.3	1.1	0.0	54	19	0.76
Jan-17	2.3	1.9	1.9	2.0	1.9	2.0	2.6	1.8	0.79	8	0.73	7	12.3	0	1.3	0.9	0.0	59	17	0.70
Jan-18	2.2	1.8	1.8	1.9	2.2	2.2	2.7	1.9	0.77	7	0.77	7	11.8	0	0.8	0.9	0.0	61	17	0.55
Jan-19	2.2	2.1	2.1	2.1	2.2	2.3	3.1	2.2	0.76	8	0.75	8	11.9	0	1.3	1.1	0.0	63	17	0.26
Jan-20	2.3	1.8	1.8	1.9	2.2	2.3	2.7	1.8	0.76	8	0.75	8	12.0	0	1.3	1.2	0.0	59	18	0.57
Jan-21	2.4	2.6	2.6	2.8	2.5	2.5	3.5	2.6	0.76	9	0.76	8	12.0	0	1.4	1.2	0.0	58	25	0.61
Jan-22	2.4	2.7	2.7	2.7	2.4	2.4	3.1	2.1	0.77	9	0.76	8	11.8	0	1.3	1.3	0.0	56	20	0.58
Jan-23	2.3	2.9	2.9	2.8	2.3	2.4	3.1	2.2	0.79	7	0.77	8	12.1	0	1.4	1.1	0.0	63	20	0.51
Jan-24	2.4	2.2	2.2	2.2	2.3	2.3	2.5	1.5	0.80	8	0.77	9	12.0	0	1.4	1.3	0.0	60	20	0.53
Jan-25	2.5	2.6	2.6	2.7	2.4	2.4	2.8	1.9	0.79	8	0.78	8	12.0	0	1.0	0.8	0.0	67	20	0.45
Jan-26	2.4	2.3	2.3	2.3	2.3	2.4	2.5	1.7	0.77	8	0.77	8	12.1	0	1.0	0.8	0.0	66	20	0.40
Jan-27	2.3	1.8	1.8	1.8	2.3	2.3	2.3	1.6	0.75	8	0.73	8	11.9	0	1.8	1.3	0.0	71	20	0.40
Jan-28	2.4	2.0	2.0	2.1	2.4	2.5	2.2	1.7	0.75	8	0.77	9	11.7	0	1.4	2.1	0.6	68	19	0.30
Jan-29	2.5	2.6	2.6	2.6	2.5	2.7	2.7	2.2	0.71	8	0.71	8	12.1	0	1.1	1.0	0.0	65	21	0.25
Jan-30	2.8	1.8	1.8	1.8	2.5	2.6	2.7	2.2	0.75	8	0.71	8	12.6	0	1.5	1.2	0.0	59	23	0.30
Jan-31	1.8	2.0	2.0	1.8	2.3	2.3	3.0	2.6	0.73	8	0.67	8	12.7	0	1.2	0.7	0.0	64	22	0.25

Jan-06	Press												
	Press Temp.	RAS Pressed T-1	RAS Pressed T-2	Poly Added Thick.	Poly Added Press	Bins	Onto Thick.	Off Thickener	Off Press	Thickener Poly Conc.	Press Poly Conc.	Net Bin Weight	Gross Bin Weight
	°C	(M^3/day)	(M^3/day)	# of Bags	# of Bags	#	%	%	%	%	%	Kg	Kg
Min:	8	0	0	0	0	0	0	0	0	0	0	0	0
Max:	12	210	212	1	1	3	1.96	1.96	6.47	0.18	0.25	9875	26090
Average:	9.6	98.3	90.5	0.2	0.2	1.8	0.2	0.2	0.5	0.0	0.0	318.5	841.6
Total:		3048	2805	7	7	55	4.85						
Jan-1	12	0	0	0	0	1	0	0	0	0	0	0	0
Jan-2	12	0	0	0	0	1	0	0	0	0	0	0	0
Jan-3	10	0	0	0	1	3	0	0	0	0	0	0	0
Jan-4	10	125	125	0	0	2	0	0	0	0	0	0	0
Jan-5	10	125	125	0	0	2	0	0	0	0	0	0	0
Jan-6	10	125	0	1	1	3	1.96	5.32	5.32	0.18	0.25	0	0
Jan-7	11	135	121	0	0	2	0	0	0	0	0	0	0
Jan-8	11	0	0	0	0	0	0	0	0	0	0	0	0
Jan-9	11	210	212	0	0	0	0	0	0	0	0	0	0
Jan-10	10	154	94	0	0	2	0	0	0	0	0	0	0
Jan-11	10	0	0	0	0	0	0	0	0	0	0	0	0
Jan-12	9	117	125	1	1	2	0	0	0	0	0	0	0
Jan-13	10	102	0	0	0	3	0	0	0	0	0	0	0
Jan-14	10	0	0	0	0	0	0	0	0	0	0	0	0
Jan-15	10	135	111	0	0	0	0	0	0	0	0	0	0
Jan-16	8	150	150	1	1	3	0	0	0	0	0	0	0
Jan-17	9	150	169	0	0	3	0	0	0	0	0	0	0
Jan-18	9	125	125	0	0	2	0	0	0	0	0	0	0
Jan-19	8	175	175	1	1	3	0	0	0	0	0	9875	26090
Jan-20	9	62	63	0	0	3	1.77	6.47	6.47	0.16	0.23	0	0
Jan-21	9	140	143	0	0	2	0	0	0	0	0	0	0
Jan-22	8	0	0	0	0	0	0	0	0	0	0	0	0
Jan-23	9	160	160	0	0	3	0	0	0	0	0	0	0
Jan-24	9	150	150	1	1	3	0	0	0	0	0	0	0
Jan-25	9	77	125	0	0	2	0	0	0	0	0	0	0
Jan-26	9	125	125	0	0	2	0	0	0	0	0	0	0
Jan-27	9	54	50	0	0	3	1.12	5.06	5.06	0.17	0.23	0	0
Jan-28	10	0	0	0	0	0	0	0	0	0	0	0	0
Jan-29	10	160	162	0	0	0	0	0	0	0	0	0	0
Jan-30	8	134	150	1	1	2	0	0	0	0	0	0	0
Jan-31	10	158	145	1	0	3	0	0	0	0	0	0	0

Lift Station Hours

Feb-06	Wilson St.		Lee Ave.		Fairview		Marina St.		Airport		Lakeside N.		Lakeside S.			Alberni	
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3
Min:	**0.0**	**0.0**	4.1	4.1	0.4	0.4	0.0	0.1	0.2	0.2	0.9	1.2	2.1	2.1	1.7	1.9	1.9
Max:	**0.2**	**0.2**	4.5	4.8	0.7	0.7	0.2	0.3	2.2	0.7	2.2	2.6	2.7	2.7	1.9	2.2	2.2
Average:	**0.0**	**0.0**	4.3	4.4	0.6	0.6	0.1	0.1	0.8	0.4	1.7	2.1	2.4	2.5	1.8	2.0	2.0
Total:	**0.2**	**0.2**	119.5	123.8	15.7	15.7	3.0	3.2	22.5	11.0	47.5	58.5	66.9	68.8	49.6	57.0	56.8
Feb-1	0.0	0.0	4.1	4.3	0.5	0.4	0.1	0.1	0.4	0.4	0.9	1.2	2.4	2.4	1.7	2.0	2.0
Feb-2	0.0	0.0	4.2	4.4	0.5	0.5	0.1	0.1	0.5	0.5	1.2	1.3	2.3	2.5	1.7	2.0	2.0
Feb-3	0.0	0.0	4.2	4.3	0.7	0.6	0.1	0.1	0.4	0.4	1.2	1.4	2.5	2.4	1.7	2.0	2.0
Feb-4	0.0	0.0	4.1	4.4	0.7	0.7	0.1	0.1	0.5	0.5	1.1	1.3	2.3	2.5	1.8	2.1	2.1
Feb-5	0.0	0.0	4.4	4.8	0.6	0.7	0.1	0.1	1.6	0.5	1.6	2.6	2.7	2.6	1.9	2.1	2.2
Feb-6	0.0	0.0	4.4	4.7	0.6	0.6	0.1	0.1	1.9	0.3	1.9	2.6	2.7	2.6	1.8	1.9	2.0
Feb-7	0.0	0.0	4.2	4.7	0.6	0.6	0.1	0.1	1.7	0.3	1.7	2.4	2.5	2.7	1.8	2.0	2.0
Feb-8	0.0	0.0	4.1	4.4	0.5	0.6	0.1	0.1	0.2	0.2	2.0	2.3	2.6	2.5	1.7	1.9	2.0
Feb-9	0.0	0.0	4.2	4.5	0.6	0.6	0.1	0.1	0.4	0.4	1.7	1.9	2.4	2.4	1.8	2.0	1.9
Feb-10	0.0	0.0	4.1	4.4	0.5	0.5	0.1	0.1	0.3	0.3	1.4	1.9	2.5	2.5	1.7	1.9	2.0
Feb-11	0.0	0.0	4.1	4.4	0.6	0.6	0.1	0.1	0.3	0.3	1.4	1.7	2.4	2.5	1.8	2.0	2.1
Feb-12	0.0	0.0	4.3	4.4	0.5	0.5	0.1	0.1	0.2	0.2	2.0	1.8	2.5	2.5	1.9	2.1	2.1
Feb-13	0.0	0.0	4.4	4.6	0.5	0.5	0.1	0.1	0.3	0.3	1.7	2.6	2.4	2.5	1.8	2.1	2.1
Feb-14	0.0	0.0	4.4	4.4	0.5	0.5	0.1	0.1	0.4	0.4	2.0	2.3	2.4	2.4	1.8	2.1	2.0
Feb-15	0.0	0.0	4.2	4.2	0.4	0.4	0.1	0.2	0.3	0.3	1.9	2.2	2.4	2.5	1.7	2.1	2.0
Feb-16	0.0	0.0	4.3	4.2	0.5	0.5	0.2	0.1	2.0	0.4	2.0	2.4	2.4	2.3	1.8	2.1	2.1
Feb-17	0.0	0.0	4.3	4.3	0.6	0.6	0.1	0.1	1.8	0.4	1.8	2.5	2.2	2.6	1.9	2.1	2.1
Feb-18	0.0	0.0	4.2	4.3	0.7	0.7	0.1	0.1	1.9	0.5	1.9	2.2	2.4	2.5	1.8	2.2	2.1
Feb-19	0.0	0.0	4.3	4.3	0.6	0.6	0.2	0.1	0.6	0.6	2.2	2.4	2.3	2.4	1.8	2.1	2.1
Feb-20	0.0	0.0	4.5	4.5	0.5	0.5	0.0	0.3	2.2	0.7	2.2	2.6	2.5	2.6	1.8	2.1	2.0
Feb-21	0.0	0.0	4.4	4.4	0.6	0.6	0.1	0.1	2.0	0.5	2.0	2.3	2.4	2.5	1.8	2.0	2.0
Feb-22	0.0	0.0	4.2	4.2	0.7	0.6	0.2	0.2	0.3	0.3	1.8	2.1	2.2	2.3	1.8	2.0	2.0
Feb-23	0.0	0.0	4.3	4.2	0.5	0.6	0.1	0.1	0.5	0.5	1.7	2.1	2.2	2.4	1.7	2.1	2.0
Feb-24	0.0	0.0	4.2	4.1	0.6	0.6	0.1	0.1	0.5	0.5	1.6	1.9	2.2	2.1	1.7	2.0	2.0
Feb-25	0.0	0.0	4.3	4.2	0.5	0.5	0.1	0.1	0.4	0.4	1.6	2.1	2.1	2.3	1.7	2.0	1.9
Feb-26	0.0	0.0	4.4	4.8	0.5	0.5	0.1	0.1	0.3	0.3	1.7	1.9	2.3	2.4	1.8	2.0	2.0
Feb-27	0.0	0.0	4.4	4.7	0.6	0.6	0.1	0.1	0.3	0.3	1.6	2.3	2.4	2.4	1.7	2.0	2.0
Feb-28	0.2	0.2	4.3	4.7	0.5	0.5	0.1	0.1	0.3	0.3	1.7	2.2	2.3	2.5	1.7	2.0	2.0

Feb-06	General					Headworks Primaries Fermenters											
	Natural Gas Totalizer (M^3/day)	Elecrical Usage MWH/day	Electrical Volts Volts	OAT Temp min Temp (°C)	OAT Temp max. Temp (°C)	Influent Flow ML / Day	Bar Screen Cycles	Train #1 Prim sludge to Ferm. (M^3/day)	Ferm #1 Sludge to Digester (M^3/day)	Ferm #1 HRT Hours	Ferm #1 SRT Days	Ferm #1 Blanket Level (Feet down from top)	Ferm #2 Blanket Level (Feet down from top)	Train #2 Prim sludge to Ferm. (M^3/day)	Ferm #2 Sludge to Digester (M^3/day)	Ferm #2 HRT Hours	Ferm #2 SRT Days
Min:	58	5	396	-12	-2	11.7	91	270	11	23	5	0	0	291	6	23	5
Max:	526	11	500	4	10	13.9	112	360	72	31	31	9	9	358	66	29	57
Average:	169	6	490	-2	4	12.5	100	322	49	26	8	5	4	333	38	25	12
Total:	4744	168		0.6		348.9	2800	9014	1374					9327	1069		
Feb-1	109	6	492	2	10	13.1	97	340	11	25	31	5	8	341	6	25	57
Feb-2	64	7	492	2	5	13.0	102	340	24	25	15	5	5	330	24	25	15
Feb-3	96	5	488	4	8	12.9	101	331	44	25	8	3	6	313	30	27	12
Feb-4	107	6	496	3	8	13.9	101	320	44	26	8	4	4	358	30	23	12
Feb-5	426	6	496	-1	9	12.1	103	341	44	25	8	3	4	350	10	24	34
Feb-6	488	6	496	2	9	12.3	101	341	44	25	8	3	1	358	10	23	34
Feb-7	145	5	496	-4	7	13.1	103	350	30	24	12	4	2	331	44	25	8
Feb-8	88	6	496	-8	3	13.1	96	330	44	25	8	4	2	332	30	25	12
Feb-9	58	6	492	-9	5	12.5	102	301	44	28	8	4	1	317	30	26	12
Feb-10	90	6	500	0	0	12.5	91	331	53	25	7	3	1	299	44	28	8
Feb-11	92	5	496	0	0	12.4	94	311	64	27	5	1	2	294	57	29	6
Feb-12	87	6	496	-4	6	11.8	93	331	72	25	5	2	5	314	66	27	5
Feb-13	78	6	496	0	0	12.6	92	350	41	24	9	8	4	354	52	24	7
Feb-14	83	6	492	0	0	12.3	99	341	54	25	7	3	0	356	49	24	7
Feb-15	151	5	492	0	0	12.4	91	331	68	25	5	0	5	358	51	23	7
Feb-16	99	6	396	0	0	12.6	96	330	68	25	5	6	4	357	51	24	7
Feb-17	118	6	492	0	0	12.5	99	341	68	25	5	5	5	324	51	26	7
Feb-18	526	6	492	-12	0	12.3	104	340	67	25	5	5	5	342	51	25	7
Feb-19	450	11	496	-12	-1	12.2	103	341	61	25	6	5	7	357	45	24	8
Feb-20	230	6	486	-10	1	12.3	97	301	56	28	6	5	6	343	42	24	8
Feb-21	107	6	492	-4	4	12.4	99	290	55	29	6	5	9	345	42	24	8
Feb-22	96	6	488	-3	5	12.2	101	271	55	31	6	7	8	291	42	29	8
Feb-23	83	5	492	0	0	12.2	96	280	55	30	6	8	8	321	42	26	8
Feb-24	377	6	488	-6	4	11.7	105	271	46	31	8	7	5	323	36	26	10
Feb-25	226	6	496	-8	-2	11.8	111	270	41	31	9	8	7	336	33	25	11
Feb-26	110	6	492	0	0	12.3	112	290	41	29	9	9	4	348	33	24	11
Feb-27	89	5	492	0	9	11.9	103	340	40	25	9	4	4	304	33	28	11
Feb-28	71	6	496	1	9	12.5	108	360	41	23	9	6	4	331	33	25	11

Feb-06	Digesters											
	Gas Prod.	Waste Gas Burned	Gas Pressure	Boiler Temp.	Boiler Pressure	Prim. Dig. HRT	Sec. Dig. HRT	Total Sludge to Dig.	Clarity of Supernate	Sec. Dig.	Sec. Dig. Blanket Depth	Sec. Dig. Supernate to plant
	(M^3/day)	(M^3/day)	" WC	°C	KPA	Days	Days	(M^3/day)	1,2,3	# of Rings	ft	(M^3/day)
Min:	0	0	3	40	140	11	23	54	1	0	0	-13
Max:	1217	768	10	70	190	72	31	229	3	3	8	140
Average:	665	256	7	52	156	49	26	135	1	1	5	52
Total:	16932	7164						3794				1468
Feb-1	625	11	3	52	150	11	25	60	1	0	0	122
Feb-2	457	391	8	50	150	24	25	90	3	0	0	16
Feb-3	0	0	9	40	150	44	25	103	1	0	0	-13
Feb-4	938	768	10	40	150	44	26	122	1	2	2	0
Feb-5	267	577	9	40	140	44	25	54	1	0	4	19
Feb-6	225	566	9	65	190	44	25	136	1	1	5	-4
Feb-7	272	190	7	65	185	30	24	124	1	0	7	42
Feb-8	767	154	7	55	165	44	25	74	1	0	6	63
Feb-9	325	0	5	55	160	44	28	74	1	0	8	64
Feb-10	912	45	7	55	155	53	25	126	1	1	6	64
Feb-11	473	197	7	55	160	64	27	121	1	3	7	18
Feb-12	733	387	7	50	155	72	25	191	1	3	8	54
Feb-13	683	215	8	50	155	41	24	163	1	3	8	34
Feb-14	1085	664	7	50	161	54	25	163	1	2	8	110
Feb-15	37	292	8	50	155	68	25	191	2	0	3	95
Feb-16	1019	195	7	45	150	68	25	192	2	0	4	61
Feb-17	394	229	8	45	150	68	25	155	2	0	5	55
Feb-18	455	579	9	45	140	67	25	229	2	1	5	63
Feb-19	1257	381	9	67	160	61	25	106	1	0	5	37
Feb-20	382	203	8	55	140	56	28	211	1	2	0	50
Feb-21	806	156	8	50	145	55	29	169	1	0	6	140
Feb-22	411	118	8	50	145	55	31	190	1	2	4	45
Feb-23	772	32	8	50	150	55	30	97	1	2	2	104
Feb-24	390	592	9	57	150	46	31	82	1	3	7	23
Feb-25	653	170	6	70	155	41	31	184	1	3	6	42
Feb-26	746	8	7	55	160	41	29	74	1	1	7	46
Feb-27	928	23	6	50	165	40	25	176	1	1	6	46
Feb-28	835	21	7	53	175	41	23	137	1	0	6	71

Feb-06	Bioreactor #1				Bioreactor #2				Clarifiers				Effluent							
	T1 Cell 8a	T1 Cell 8b	T1 Cell 9a	T1 Cell 9b	T2 Cell 8a	T2 Cell 8b	T2 Cell 9a	T2 Cell 9b	R.A.S. Clarifier 1	Sludge Blanket 1	R.A.S. Clarifier 2	Sludge Blanket 2	Effluent Flow	Irr. Flow	Cl2 Analyzer	End of Contact Chlorine	Effluent Chlorine	Cl_2	SO_2	Turbidity
	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	%	Depth (feet)	%	Depth (feet)	ML / Day	(M^3/day)	(mg/L)	(mg/l)	(mg/l)	(Kg/day)	(Kg/day)	NTU
Min:	1.7	1.4	0.8	0.8	1.8	1.4	1.1	0.8	0.69	6.0	0.67	7.0	9.2	0	1.0	0.8	0.0	33	12	0.25
Max:	2.2	2.2	3.3	3.3	2.7	2.7	3.5	3.6	0.86	9.0	0.80	10.0	15.2	0	3.2	2.0	0.6	69	25	0.81
Average:	2.0	2.0	1.9	1.8	2.1	1.9	2.0	1.7	0.75	8.3	0.71	8.5	11.9	0	1.5	1.2	0.0	48	20	0.42
Total:													333.0					1353	555	
Feb-1	1.9	1.4	1.4	1.2	2.2	2.1	1.7	1.6	0.71	6.5	0.74	8.5	12.3	0	1.0	1.2	0.00	62	21	0.3
Feb-2	1.7	1.7	0.9	0.9	2.0	1.9	1.4	1.2	0.72	7.0	0.70	9.0	15.2	0	1.4	1.2	0.00	55	22	0.30
Feb-3	1.9	1.9	2.7	2.7	2.1	1.7	2.1	1.9	0.73	9.0	0.71	9.0	9.2	0	1.4	1.1	0.00	53	21	0.30
Feb-4	1.9	1.9	0.8	0.8	1.9	1.5	1.9	1.8	0.79	6.0	0.71	8.0	13.7	0	1.4	1.3	0.00	52	22	0.29
Feb-5	1.8	1.8	2.2	2.2	2.0	1.7	2.2	2.0	0.78	9.0	0.72	9.0	11.7	0	1.4	1.4	0.00	51	23	0.28
Feb-6	1.7	1.7	2.2	2.2	1.8	1.5	2.2	2.0	0.79	8.0	0.72	9.0	12.5	0	1.5	1.0	0.00	62	22	0.25
Feb-7	2.1	2.1	1.1	1.1	2.1	1.8	1.2	1.0	0.80	8.0	0.71	8.0	13.1	0	1.4	1.2	0.00	52	20	0.33
Feb-8	2.1	2.1	1.0	1.0	2.1	1.8	1.1	0.9	0.86	9.0	0.80	8.0	12.7	0	2.0	1.4	0.00	57	19	0.32
Feb-9	2.1	2.1	2.3	2.3	2.1	1.9	2.2	1.9	0.85	8.0	0.74	9.0	12.2	0	1.2	0.8	0.00	54	17	0.25
Feb-10	2.0	2.0	1.4	1.4	2.1	1.9	1.4	1.2	0.79	8.5	0.73	7.5	12.1	0	1.3	0.9	0.00	58	19	0.30
Feb-11	2.0	2.0	1.9	1.9	2.2	2.1	2.0	1.8	0.73	9.0	0.69	8.0	12.0	0	1.0	0.9	0.00	53	17	0.25
Feb-12	1.8	1.8	2.1	2.1	2.1	2.0	1.9	1.9	0.77	8.5	0.72	9.0	12.0	0	1.5	1.4	0.00	69	17	0.30
Feb-13	1.8	1.8	1.7	1.7	2.1	1.9	1.9	1.7	0.76	9.0	0.73	10.0	12.5	0	1.5	1.2	0.00	53	21	0.36
Feb-14	1.9	1.9	3.0	3.0	2.1	1.8	2.4	2.0	0.75	9.0	0.75	9.0	12.3	0	1.9	0.9	0.00	63	12	0.30
Feb-15	2.0	2.0	1.5	1.5	2.0	1.5	1.2	0.8	0.69	8.0	0.69	8.0	12.5	0	1.7	1.4	0.08	53	21	0.45
Feb-16	2.0	2.0	2.2	2.2	2.0	1.5	1.9	1.3	0.72	9.0	0.71	9.0	12.3	0	1.5	1.4	0.00	42	22	0.45
Feb-17	1.9	1.9	1.9	1.9	1.8	1.4	1.8	1.3	0.71	9.0	0.71	8.0	11.9	0	1.5	1.4	0.00	43	22	0.45
Feb-18	1.9	1.9	1.9	1.9	2.0	2.2	2.2	1.6	0.73	8.0	0.71	8.0	11.2	0	1.4	1.5	0.00	41	20	0.47
Feb-19	1.9	1.9	2.8	2.8	2.0	2.1	3.5	3.6	0.74	9.0	0.71	9.0	11.0	0	1.5	1.4	0.00	41	19	0.46
Feb-20	1.9	1.9	1.6	1.6	1.9	1.9	2.1	2.2	0.74	9.0	0.70	7.0	11.2	0	1.4	1.5	0.00	45	19	0.50
Feb-21	2.1	2.1	1.5	1.5	1.8	2.0	1.6	1.2	0.74	9.0	0.69	8.5	11.4	0	1.4	1.4	0.00	39	20	0.57
Feb-22	2.1	2.1	2.6	2.6	2.7	2.7	2.5	2.2	0.75	9.0	0.69	9.0	10.6	0	1.1	0.9	0.00	39	18	0.45
Feb-23	2.2	2.2	1.5	1.5	2.6	2.4	2.3	1.8	0.75	9.0	0.67	9.0	11.5	0	1.5	1.1	0.00	35	20	0.58
Feb-24	2.2	2.2	1.6	1.6	2.6	2.5	2.4	2.1	0.73	8.5	0.67	8.5	10.9	0	1.5	1.0	0.00	33	19	0.61
Feb-25	2.2	2.2	1.7	1.7	2.6	2.4	2.4	1.9	0.71	8.0	0.67	8.0	10.5	0	1.3	1.2	0.00	37	19	0.65
Feb-26	2.2	2.2	1.6	1.6	2.5	2.4	2.1	1.6	0.71	7.5	0.68	9.0	10.9	0	1.2	0.9	0.00	35	19	0.66
Feb-27	2.2	2.2	1.8	1.8	2.5	2.3	2.1	1.7	0.75	6.5	0.69	7.0	11.3	0	3.2	2.0	0.63	40	19	0.81
Feb-28	2.2	2.2	3.3	3.3	2.1	1.8	2.4	2.7	0.81	7.5	0.73	8.0	12.3	0	1.3	1.2	0.00	36	25	0.65

Feb-06	Press												
	Press Temp.	RAS Pressed T-1	RAS Pressed T-2	Poly Added Thick.	Poly Added Press	Bins	Onto Thick.	Off Thickener	Off Press	Thickener Poly Conc.	Press Poly Conc.	Net Bin Weight	Gross Bin Weight
	°C	(M^3/day)	(M^3/day)	# of Bags	# of Bags	#	%	%	%	%	%	Kg	Kg
Min:	0	0	0	0	0	0	0	0	0	0	0	0	0
Max:	10	244	236	2	1	3	0	0	0	0	0	0	0
Average:	6	93.39286	89.60714	0.3	0.2	1.3	0.0	0.00	0.00	0.00	0.00	0	0
Total:		2615	2509	8	5	35	0						
Feb-1	8	125	125	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0
Feb-2	10	150	125	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-3	10	60	60	0	0	3	0.00	0.00	0.00	0.00	0.00	0	0
Feb-4	10	105	120	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-5	10	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-6	10	168	175	0	0	3	0.00	0.00	0.00	0.00	0.00	0	0
Feb-7	10	125	60	1	1	1	0.00	0.00	0.00	0.00	0.00	0	0
Feb-8	0	125	125	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-9	0	121	121	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-10	0	0	0	1	1	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-11	10	0	0	1	1	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-12	9	120	123	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-13	8	164	170	0	0	3	0.00	0.00	0.00	0.00	0.00	0	0
Feb-14	0	150	150	0	0	3	0.00	0.00	0.00	0.00	0.00	0	0
Feb-15	0	195	175	0	0	3	0.00	0.00	0.00	0.00	0.00	0	0
Feb-16	0	0	0	0	0	3	0.00	0.00	0.00	0.00	0.00	0	0
Feb-17	0	75	79	1	1	3	0.00	0.00	0.00	0.00	0.00	0	0
Feb-18	5	181	150	1	0	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-19	5	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-20	8	244	236	2	0	3	0.00	0.00	0.00	0.00	0.00	0	0
Feb-21	10	0	150	0	0	3	0.00	0.00	0.00	0.00	0.00	0	0
Feb-22	10	75	65	0	0	1	0.00	0.00	0.00	0.00	0.00	0	0
Feb-23	0	0	0	0	0	2	0.00	0.00	0.00	0.00	0.00	0	0
Feb-24	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-25	9	107	110	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-26	7	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0
Feb-27	10	155	115	0	0	2	0.00	0.00	0.00	0.00	0.00	0	0
Feb-28	9	170	75	1	1	2	0.00	0.00	0.00	0.00	0.00	0	0

Mar-06	Lift Station Hours																
	Wilson St.		Lee Ave.		Fairview		Marina St.		Airport		Lakeside N.		Lakeside S.		Alberni		
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3
Min:	0.0	0.0	3.9	4.0	0.5	0.5	0.1	0.1	0.2	0.2	0.5	0.5	1.2	1.2	1.7	2.0	2.0
Max:	0.4	0.4	6.2	6.8	0.8	0.8	0.2	1.1	2.2	0.6	2.2	25.0	2.7	2.8	2.0	2.3	2.3
Average:	0.2	0.2	4.3	4.5	0.6	0.6	0.1	0.1	0.6	0.4	1.4	2.4	1.6	1.7	1.8	2.0	2.1
Total:	5.0	4.8	133.3	136.7	18.7	18.7	3.3	4.6	19.6	12.8	44.1	74.6	49.4	51.2	55.7	63.3	63.7
Mar-1	0.2	0.2	4.7	5.0	0.8	0.8	0.2	0.2	0.4	0.4	1.5	2.4	2.7	2.8	2.0	2.3	2.3
Mar-2	0.2	0.2	4.9	5.3	0.6	0.6	0.1	0.1	0.4	0.4	2.0	2.4	2.5	2.7	1.8	2.1	2.0
Mar-3	0.2	0.2	4.6	4.8	0.6	0.6	0.1	0.1	2.1	0.5	2.1	2.4	2.4	2.6	1.8	2.0	2.1
Mar-4	0.2	0.2	4.3	4.5	0.6	0.6	0.1	0.1	2.2	0.6	2.2	2.6	2.2	2.4	1.8	2.1	2.0
Mar-5	0.2	0.2	4.5	4.6	0.6	0.7	0.1	0.1	2.0	0.5	2.0	2.4	2.5	2.3	1.8	2.0	2.0
Mar-6	0.2	0.2	4.4	4.7	0.6	0.6	0.1	0.1	0.4	0.4	2.1	2.4	1.9	2.0	1.7	2.0	2.0
Mar-7	0.2	0.2	4.4	4.7	0.6	0.6	0.1	0.1	0.4	0.4	2.1	2.4	1.9	2.0	1.7	2.0	2.0
Mar-8	0.2	0.2	4.2	4.5	0.7	0.7	0.1	0.1	0.5	0.5	1.9	2.6	1.2	1.3	1.8	2.0	2.0
Mar-9	0.2	0.2	4.3	4.6	0.8	0.8	0.1	0.1	0.4	0.4	2.0	2.4	1.4	1.4	1.7	2.0	2.1
Mar-10	0.1	0.1	4.3	4.5	0.5	0.5	0.1	0.1	0.4	0.4	2.0	2.4	1.3	1.4	1.8	2.0	2.0
Mar-11	0.1	0.1	4.2	4.5	0.5	0.5	0.1	0.1	0.3	0.3	2.1	25.0	1.4	1.5	1.8	2.0	2.0
Mar-12	0.1	0.1	4.3	4.5	0.6	0.6	0.1	0.1	0.3	0.3	2.0	2.4	1.3	1.3	1.8	2.1	2.1
Mar-13	0.1	0.1	4.3	4.6	0.5	0.5	0.1	0.1	0.5	0.5	1.7	1.8	1.6	1.5	1.8	2.0	2.0
Mar-14	0.1	0.1	4.3	4.4	0.5	0.5	0.1	0.1	0.5	0.5	1.1	1.4	1.6	1.6	1.7	2.0	2.0
Mar-15	0.1	0.1	6.2	6.8	0.6	0.6	0.1	0.1	0.6	0.6	1.2	1.3	1.6	1.5	1.8	2.0	2.0
Mar-16	0.1	0.1	4.1	4.3	0.5	0.5	0.1	0.1	0.5	0.5	1.2	1.4	1.4	1.6	1.8	2.1	2.1
Mar-17	0.1	0.1	4.2	4.3	0.6	0.6	0.1	0.1	1.1	0.5	1.2	1.6	1.4	1.6	1.7	2.1	2.2
Mar-18	0.1	0.1	4.2	4.2	0.7	0.7	0.1	0.1	1.1	0.5	1.1	1.6	1.4	1.4	1.9	2.2	2.2
Mar-19	0.1	0.1	4.1	4.3	0.7	0.7	0.1	0.1	1.2	0.3	1.2	1.5	1.5	1.5	1.9	2.2	2.2
Mar-20	0.2	0.1	4.2	4.3	0.6	0.6	0.1	0.1	0.3	0.3	1.2	1.3	1.4	1.5	1.8	2.0	2.1
Mar-21	0.0	0.0	4.1	4.2	0.6	0.6	0.1	0.1	0.4	0.4	1.3	1.3	1.4	1.5	1.8	2.0	2.0
Mar-22	0.2	0.1	4.1	4.2	0.6	0.6	0.1	0.1	0.4	0.4	1.3	1.2	1.4	1.5	1.8	2.0	2.0
Mar-23	0.4	0.3	4.0	4.1	0.6	0.6	0.1	0.1	0.3	0.3	1.3	1.2	1.5	1.5	1.8	2.0	2.0
Mar-24	0.3	0.4	4.0	4.0	0.6	0.6	0.1	0.1	0.4	0.4	0.8	1.3	1.3	1.4	1.8	2.0	2.0
Mar-25	0.4	0.4	4.0	4.2	0.6	0.6	0.1	0.1	0.4	0.4	0.8	0.9	1.2	1.3	1.8	2.0	2.0
Mar-26	0.1	0.1	4.1	4.1	0.6	0.6	0.2	1.1	0.2	0.2	1.0	0.9	1.4	1.4	1.8	2.0	2.0
Mar-27	0.1	0.1	4.1	4.0	0.6	0.6	0.1	0.1	0.3	0.3	0.8	1.1	1.3	1.5	1.8	2.0	2.0
Mar-28	0.1	0.1	4.2	4.2	0.6	0.5	0.1	0.1	0.4	0.4	0.9	0.8	1.4	1.3	1.8	2.0	2.1
Mar-29	0.1	0.1	4.1	4.1	0.6	0.6	0.1	0.1	0.4	0.4	0.8	1.0	1.4	1.4	1.8	2.0	2.1
Mar-30	0.1	0.1	4.0	4.1	0.5	0.5	0.1	0.5	0.5	0.5	0.7	0.7	1.2	1.3	1.8	2.1	2.0
Mar-31	0.2	0.2	3.9	4.1	0.6	0.6	0.1	0.1	0.3	0.3	0.5	0.5	1.3	1.2	1.8	2.0	2.1

Mar-06	General					Headworks Primaries Fermenters											
	Natural Gas Totalizer	Electrical Usage	Electrical Volts	OAT Temp min	OAT Temp max.	Influent Flow	Bar Screen Cycles	Train #1 Prim sludge to Ferm.	Ferm #1 Sludge to Digestor	Ferm #1 HRT	Ferm #1 SRT	Ferm #1 Blanket Level	Ferm #2 Blanket Level	Train #2 Prim sludge to Ferm.	Ferm #2 Sludge to Digestor	Ferm #2 HRT	Ferm #2 SRT
	(M^3/day)	MWH/day	Volts	Temp (°C)	Temp (°C)	ML / Day		(M^3/day)	(M^3/day)	Hours	Days	(Feet down from top)	(Feet down from top)	(M^3/day)	(M^3/day)	Hours	Days
Min:	12		396	-6		12.0	90	291	34	23	5			303	30	23	5
Max:	92	17	496	5	17	13.7	116	362	67	29	10	9	8	368	64	28	12
Average:	51	6	485	0	8	13.0	100	342	54	25	7	5	4	352	46	24	8
Total:	1571	198		3.9		401.9	3103	10589	1678					10920	1414		
Mar-1	76	6	492	-2.0	8.0	13.7	116	351	40	24	9	7	2	367	33	23	11
Mar-2	69	6	488	-2.0		12.6	105	360	41	23	8	5		368	33	23	11
Mar-3	61	6	488			12.4	105	362	50	23	7	2	2	340	43	25	8
Mar-4	52	3	496			12.1	109	351	54	24	6	4	6	364	48	23	7
Mar-5	51	8	492		10.3	12.6	98	320	43	26	8	7	3	355	36	24	10
Mar-6	58	6	480	1.7	10.0	12.9	102	331	34	25	10	6	3	364	30	23	12
Mar-7	38	6	482	2.9	4.2	12.7	104	350	34	24	10	4		345	30	24	12
Mar-8	77	5	486	-1.9	6.6	13.0	101	360	46	23	8	1		328	36	26	10
Mar-9	92	6	496	-3.2	5.4	12.9	102	360	51	23	7			322	45	26	8
Mar-10	73	6	492	-4.6	6.3	13.1	103	350	67	24	5		2	358	64	23	5
Mar-11	68	6	496	-5.8		13.1	100	351	67	24	5	1	3	363	60	23	6
Mar-12	82	5	492		8.0	12.5	90	341	61	25	6	2	4	327	54	26	6
Mar-13	78	6	496	-1.0	8.0	13.5	99	351	59	24	6	4	4	303	52	28	7
Mar-14	56	6	496	3.0	8.0	12.9	100	341	61	25	6	4	5	368	54	23	6
Mar-15	53	6	492	-1.0		13.2	94	360	61	23	6	4	5	368	54	23	6
Mar-16	41	6	492			13.5	93	341	62	25	6	4	6	366	54	23	6
Mar-17	76	5	488			13.4	101	360	57	23	6	7	8	367	49	23	7
Mar-18	63	5	492			12.5	97	351	52	24	7	7	7	367	45	23	8
Mar-19	81	17	492		7.5	12.0	90	360	55	23	6	8	8	366	48	23	7
Mar-20	51	6	488	-2.0	8.6	13.1	107	341	52	25	7	8	6	367	45	23	8
Mar-21	20	11	396	-1.0	12.0	12.7	94	350	48	24	7	4	5	364	39	23	9
Mar-22	24	6	492	0.8	13.0	13.0	94	351	47	24	7	2	4	367	36	23	10
Mar-23	17	6	396	4.0	17.0	12.8	102	331	51	25	7	3	2	310	38	27	9
Mar-24	17	6	492	5.0	10.0	13.0	97	341	61	25	6	3	5	341	46	25	8
Mar-25	25	7	492	3.0	8.0	12.8	99	311	65	27	5	6	5	365	48	23	7
Mar-26	38	8	492	1.0	11.0	12.4	94	301	65	28	5	7	6	323	48	26	7
Mar-27	31	7	492	-2.0	13.0	13.6	107	300	65	28	5	6	6	367	48	23	7
Mar-28	32	6	492		15.0	13.2	94	340	65	25	5	9	6	354	48	24	7
Mar-29	41	7	496	4.0	15.0	13.7	98	351	61	24	6	8	2	358	48	23	7
Mar-30	18	8	496	4.0	16.0	13.5	106	330	50	25	7	4	2	347	48	24	7
Mar-31	12		496	3.0	15.0	13.5	102	291	53	29	7	4	6	351	51	24	7

Mar-06	Digesters											
	Gas Prod.	Waste Gas Burned	Gas Pressure	Boiler Temp.	Boiler Pressure	Prim. Dig. HRT	Sec. Dig. HRT	Total Sludge to Dig.	Clarity of Supernate	Sec. Dig.	Sec. Dig. Blanket Depth	Sec. Dig. Supernate to plant
	(M^3/day)	(M^3/day)	" WC	° C	KPA	Days	Days	(M^3/day)	1,2,3	# of Rings	ft	(M^3/day)
Min:	84	1	3	50	170	34	23	93	1			-30
Max:	2238	458	8	55	200	67	29	197	3	3	9	131
Average:	714	112	8	52	184	54		142	1	1	4	56
Total:	22126	3475						4414				1731
Mar-1	625	1	3	55	180	40	24	145	1		8	19
Mar-2	853	33	7	50	170	41	23	103	1		8	2
Mar-3	525	99	7	50	180	50	23	93	1		8	47
Mar-4	614	181	8	53	180	54	24	102	2	2		93
Mar-5	404	80	8	50	180	43	26	180	2	2	3	102
Mar-6	1330	51	8	52	180	34	25	143	1		3	-21
Mar-7	355	8	8	53	180	34	24	158	1			7
Mar-8	346	24	7	53	185	46	23	170	1		6	-30
Mar-9	1055	310	8	53	180	51	23	117	1		9	-6
Mar-10	416	294	8	53	180	67	24	131	1	2	8	77
Mar-11	733	316	8	53	180	67	24	127	2	2	3	131
Mar-12	568	214	7	53	180	61	25	193	2	2	4	127
Mar-13	84	374	8	52	175	59	24	166	1	2	4	37
Mar-14	1122	97	8	53	175	61	25	189	2	2	3	68
Mar-15	510	92	8	53	175	61	23	178	2	2	4	41
Mar-16	756	16	8	53	180	62	25	116	2		2	52
Mar-17	646	173	8	50	175	57	23	106	2	2		116
Mar-18	427	165	8	50	180	52	24	97	2	3	4	106
Mar-19	525	20	8	50	180	55	23	197	3	3		97
Mar-20	571	91	8	50	175	52	25	193	3	3		9
Mar-21	886	18	8	50	190	48	24	174	2	1		1
Mar-22	2170	18	7	50	195	47	24	128	1	1	2	11
Mar-23	2238	18	7	53	190	51	25	114	1	1		40
Mar-24	379	5	7	53	190	61	25	107	1	1	7	64
Mar-25	406	45	8	53	200	65	27	113	1	2	8	107
Mar-26	408	5	8	53	200	65	28	163	1	1	5	113
Mar-27	469	33	8	53	200	65	28	163	1	1	5	63
Mar-28	793	458	8	50	195	65	25	163	1	1	8	63
Mar-29	767	100	8	50	195	61	24	159	1	1	8	63
Mar-30	464	47	8	50	190	50	25	122	1	1	5	59
Mar-31	681	99	6	50	190	53	29	104	1	1	6	74

Mar-06	Bioreactor #1				Bioreactor #2				Clarifiers				Effluent								
	T1 Cell 8a	T1 Cell 8b	T1 Cell 9a	T1 Cell 9b	T2 Cell 8a	T2 Cell 8b	T2 Cell 9a	T2 Cell 9b	R.A.S. Clarifier 1	Sludge Blanket 1	R.A.S. Clarifier 2	Sludge Blanket 2	Effluent Flow	Irr. Flow	Cl2 Analyzer	Irr. Cl2 Residual	End of Contact Chlorine	Effluent Chlorine	Cl_2	SO_2	Turbidity
	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	%	Depth (feet)	%	Depth (feet)	ML / Day	(M^3/day)	(mg/L)	(mg/L)	(mg/l)	(mg/l)	(Kg/day)	(Kg/day)	NTU
Min:	1.6	1.8	1.8	1.1	1.7	1.5	1.4	0.9	0.64	7.0	0.41	6.0	11.6		1.0	#REF!	1.0		33	22	0.75
Max:	2.5	4.0	4.0	3.9	3.1	3.0	3.8	3.6	0.82	13.0	0.77	12.0	13.9	99	2.9	#REF!	2.2	0.1	69	55	1.61
Average:	2.1	2.3	2.3	1.9	2.2	2.1	2.3	2.0	0.74	9.9	0.72	9.9	12.8		2.0		1.6	0.0	48	26	1.07
Total:													397.3	99					1473	806	
Mar-1	2.0	2.5	2.5	3.0	1.7	1.5	1.9	2.1	0.81	7.0	0.75	7.0	13.8		1.0	#REF!	1.2		33	29	0.96
Mar-2	2.1	2.7	2.7	3.1	1.9	1.8	3.0	3.2	0.80	7.0	0.73	7.0	11.8		1.6	#REF!	1.5		36	24	0.78
Mar-3	2.1	3.0	3.0	3.2	2.2	2.0	3.3	3.2	0.81	7.0	0.74	7.0	11.6		1.4	#REF!	1.2		45	24	0.75
Mar-4	2.5	2.5	2.5	3.9	3.1	3.0	2.9	3.6	0.81	7.0	0.76	6.0	11.8		1.5	#REF!	1.3		58	25	0.77
Mar-5	2.3	1.8	1.8	2.5	2.8	2.7	2.1	2.6	0.79	7.0	0.77	8.0	12.1		1.9	#REF!	1.6		56	25	0.87
Mar-6	2.2	2.0	2.0	1.7	2.5	2.3	1.9	1.6	0.79	9.0	0.75	9.0	12.2		2.0	#REF!	1.6		54	22	0.90
Mar-7	2.2	1.8	1.8	1.8	2.5	2.3	1.7	1.5	0.78	9.0	0.74	9.0	12.2		1.7	#REF!	1.3		34	22	0.85
Mar-8	2.2	1.8	1.8	1.4	2.3	2.1	1.7	1.3	0.78	10.0	0.74	9.0	12.4		1.7	#REF!	1.3		43	22	0.85
Mar-9	2.3	2.0	2.0	1.4	2.1	1.8	1.6	1.3	0.79	9.0	0.74	10.0	12.7		1.7	#REF!	1.3		35	22	0.87
Mar-10	2.2	2.0	2.0	1.6	2.1	2.1	2.4	1.3	0.75	9.5	0.41	10.0	12.8		2.8	#REF!	2.0	0.06	46	23	1.01
Mar-11	2.1	2.3	2.3	1.4	2.0	2.1	2.5	2.0	0.76	9.5	0.74	9.5	12.8		2.7	#REF!	1.9		41	23	0.96
Mar-12	2.2	2.5	2.5	1.6	2.3	2.4	3.8	2.1	0.80	9.5	0.77	11.0	12.8		2.3	#REF!	1.8		43	23	0.99
Mar-13	1.8	2.5	2.5	1.9	2.3	2.5	3.6	3.4	0.82	10.0	0.75	12.0	13.2		2.4	#REF!	1.6		45	22	1.07
Mar-14	1.8	2.3	2.3	1.8	2.2	2.3	2.8	3.3	0.82	10.0	0.75	11.0	12.1		2.1	#REF!	1.6		38	23	0.89
Mar-15	1.7	2.3	2.3	1.7	2.2	2.3	2.6	2.5	0.79	11.0	0.76	11.0	12.8		1.9	#REF!	1.3		44	30	0.90
Mar-16	1.7	2.3	2.3	1.6	2.1	2.1	2.3	2.2	0.75	9.0	0.74	10.0	13.9		1.8	#REF!	1.2		42	31	0.89
Mar-17	1.6	2.5	2.5	1.7	1.8	1.7	1.9	1.9	0.72	10.0	0.75	11.0	13.7		1.6	#REF!	1.1		43	30	0.84
Mar-18	1.7	3.4	3.4	1.9	1.9	1.8	2.2	1.5	0.72	11.0	0.74	10.0	12.7		1.8	#REF!	1.2		52	55	0.82
Mar-19	1.7	4.0	4.0	2.8	2.0	2.0	2.9	1.9	0.73	11.0	0.76	9.0	12.4		1.5	#REF!	1.0		50	27	0.82
Mar-20	1.7	2.3	2.3	3.6	2.2	2.2	2.2	2.7	0.77	10.0	0.75	9.0	12.9		2.2	#REF!	1.6		51	27	1.06
Mar-21	2.1	1.9	1.9	1.6	2.1	2.1	1.7	1.8	0.71	12.0	0.72	10.0	13.0		2.9	#REF!	2.0		51	27	1.36
Mar-22	2.0	1.9	1.9	1.2	2.1	2.1	1.4	1.2	0.68	11.0	0.71	11.0	12.6		2.9	#REF!	1.8		50	25	1.27
Mar-23	2.1	2.0	2.0	1.1	2.2	2.2	1.9	0.9	0.64	11.5	0.64	12.0	12.6		2.6	#REF!	1.8		50	25	1.27
Mar-24	2.0	1.9	1.9	1.3	2.0	1.9	1.4	1.5	0.69	11.5	0.69	11.5	12.0		2.5	#REF!	1.8		44	24	1.28
Mar-25	2.1	2.0	2.0	1.2	1.8	1.7	1.6	0.9	0.66	11.0	0.71	11.0	13.6		2.6	#REF!	1.7		46	25	1.32
Mar-26	2.2	2.2	2.2	1.2	2.0	1.8	2.3	1.1	0.69	11.5	0.69	10.5	13.1		1.7	#REF!	1.5		44	24	1.53
Mar-27	2.3	2.1	2.1	1.5	2.1	1.9	2.1	1.9	0.71	11.5	0.71	11.0	13.5		1.8	#REF!	1.6		50	26	1.61
Mar-28	2.4	1.9	1.9	1.3	2.0	1.8	2.2	1.7	0.67	13.0	0.71	10.0	13.2		2.2	#REF!	2.1		69	24	1.57
Mar-29	2.1	1.8	1.8	1.2	2.3	2.2	2.2	1.8	0.68	10.5	0.65	11.0	13.4		2.0	#REF!	1.9		60	26	1.44
Mar-30	2.2	2.2	2.2	1.1	2.3	2.2	2.3	1.8	0.69	12.0	0.64	11.5	13.6		2.0	#REF!	2.2		60	26	1.49
Mar-31	2.4	2.4	2.4	1.4	2.0	2.0	2.3	1.8	0.67	9.0	0.67	12.0	13.8	99	1.9	#REF!	2.0		60	25	1.32

Mar-06	Press												
	Press Temp.	RAS Pressed T-1	RAS Pressed T-2	Poly Added Thick.	Poly Added Press	Bins	Onto Thick.	Off Thickener	Off Press	Thickener Poly Conc.	Press Poly Conc.	Net Bin Weight	Gross Bin Weight
	°C	(M³/day)	(M³/day)	# of Bags	# of Bags	#	%	%	%	%	%	Kg	Kg
Min:													
Max:	11	241	374	1	1	4							
Average:	8	113	124			2.0							
Total:		3399	3709	5	8	61							
Mar-1	10	150	150			2							
Mar-2	10	150	120			2							
Mar-3	8	46	92			3							
Mar-4													
Mar-5					1								
Mar-6	8	170	170			3							
Mar-7	10	180	190	1	1	3							
Mar-8	8	173	170			3							
Mar-9	10	180	177			3							
Mar-10	6	93	160			4							
Mar-11	10	188	140	1	1	2							
Mar-12	9												
Mar-13	8	177	189		1	3							
Mar-14	10	80	110			2							
Mar-15	10	164	120			2							
Mar-16	10	131	200			2							
Mar-17		129	116			3							
Mar-18													
Mar-19													
Mar-20	10	150	200	1	1	3							
Mar-21	10	241	170			3							
Mar-22	11	203	152		1	3							
Mar-23	10	148	207			3							
Mar-24	10	77	68	1	1	3							
Mar-25	10												
Mar-26	10												
Mar-27	11	130	126			3							
Mar-28	11	150	156			1							
Mar-29	11	152	374	1	1	3							
Mar-30	11	155	152			2							
Mar-31	11	100	79			3							

Apr-06	Lift Station Hours																
	Wilson St.		Lee Ave.		Fairview		Marina St.		Airport		Lakeside N.		Lakeside S.		Alberni		
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3
Min:	0.0	0.0	4.0	4.0	0.5	0.5	0.1	0.1	0.3	0.3	0.4	0.4	1.2	1.2	0.8	1.9	2.0
Max:	0.4	0.4	5.2	5.2	0.9	0.9	1.5	1.3	1.7	0.8	1.8	2.0	1.8	1.8	2.3	2.4	2.5
Average:	0.1	0.1	4.4	4.4	0.6	0.6	0.3	0.2	0.5	0.5	1.3	1.4	1.5	1.5	1.9	2.1	2.2
Total:	4.4	4.1	131.4	131.6	18.7	18.6	7.8	6.9	15.8	14.5	37.5	42.1	44.3	44.8	55.5	63.2	64.6
Apr-1	0.1	0.1	4.0	4.0	0.6	0.6	0.1	0.1	0.5	0.5	0.5	0.5	1.2	1.3	1.8	2.1	2.2
Apr-2	0.1	0.2	4.0	4.1	0.7	0.7	0.2	0.1	0.3	0.3	0.5	0.6	1.2	1.4	1.9	2.1	2.2
Apr-3	0.1	0.1	4.2	4.1	0.6	0.6	0.2	0.1	0.4	0.4	0.5	0.5	1.3	1.2	1.8	2.0	2.1
Apr-4	0.0	0.0	4.5	4.1	0.5	0.5	0.1	0.1	0.5	0.5	0.5	0.5	1.5	1.3	1.7	1.9	2.0
Apr-5	0.4	0.4	4.0	4.0	0.5	0.5	0.1	0.1	0.6	0.6	0.4	0.6	1.3	1.3	1.7	1.9	2.0
Apr-6	0.1	0.1	4.1	4.2	0.5	0.5	0.2	0.2	0.6	0.6	0.5	0.6	1.3	1.4	1.7	2.0	2.0
Apr-7	0.1	0.1	5.2	5.2	0.6	0.6	0.1	0.1	0.4	0.4	0.5	0.5	1.6	1.6	1.8	2.0	2.0
Apr-8	0.1	0.1	4.0	4.0	0.6	0.6	0.1	0.1	0.5	0.5	0.5	0.5	1.2	1.3	1.8	2.1	2.2
Apr-9	0.1	0.1	4.2	4.2	0.5	0.5	0.1	0.1	0.3	0.3	0.5	0.4	1.5	1.4	2.0	2.2	2.3
Apr-10	0.2	0.1	4.2	4.4	0.6	0.6	0.1	0.1	0.4	0.4	0.9	1.1	1.4	1.5	1.8	2.1	2.1
Apr-11	0.1	0.1	4.3	4.3	0.8	0.9	0.1	0.1	0.5	0.5	1.5	1.9	1.4	1.4	1.8	2.0	2.1
Apr-12	0.1	0.1	4.3	4.3	0.9	0.8	0.2	0.1	0.4	0.4	1.7	1.9	1.6	1.5	1.9	2.1	2.2
Apr-13	0.1	0.1	4.3	4.5	0.7	0.6	0.1	0.2	0.4	0.4	1.6	1.9	1.5	1.5	1.9	2.1	2.2
Apr-14	0.2	0.1	4.2	4.2	0.6	0.6	0.1	0.1	0.5	0.5	1.5	1.7	1.2	1.3	1.9	2.2	2.2
Apr-15	0.1	0.1	4.5	4.5	0.6	0.6	0.1	0.1	0.4	0.4	1.8	1.8	1.6	1.6	2.1	2.4	2.4
Apr-16	0.1	0.1	4.5	4.5	0.7	0.7	0.1	0.1	0.4	0.4	1.8	2.0	1.8	1.7	2.1	2.4	2.5
Apr-17	0.4	0.4	4.5	4.6	0.6	0.6	0.1	0.1	0.4	0.4	1.7	1.8	1.6	1.7	1.9	2.2	2.2
Apr-18	0.1	0.1	4.5	4.6	0.6	0.6	0.1	0.1	1.7	0.4	1.7	1.8	1.6	1.7	1.9	2.2	2.2
Apr-19	0.2	0.1	4.2	4.2	0.6	0.6	0.1	0.1	0.5	0.5	1.5	1.7	1.2	1.3	1.9	2.2	2.2
Apr-20	0.4	0.4	4.4	4.4	0.5	0.6	0.1	0.1	0.7	0.7	1.6	2.0	1.7	1.5	1.8	2.1	2.1
Apr-21	0.2	0.2	4.3	4.4	0.5	0.5	0.1	0.1	0.7	0.7	1.5	1.7	1.4	1.5	0.8	2.0	2.1
Apr-22	0.1	0.1	4.5	4.5	0.6	0.6	0.1	0.1	0.4	0.4	1.8	1.8	1.6	1.6	2.1	2.4	2.4
Apr-23	0.1	0.1	4.6	4.6	0.6	0.6	0.8	0.8	0.4	0.4	1.5	1.8	1.7	1.6	1.9	2.2	2.3
Apr-24	0.1	0.1	4.8	4.7	0.9	0.8	0.1	0.1	0.8	0.8	1.5	1.9	1.5	1.8	1.9	2.2	2.1
Apr-25	0.1	0.0	4.7	4.5	0.8	0.8	1.2	0.8	0.7	0.7	1.5	1.7	1.8	1.5	1.5	2.1	2.1
Apr-26	0.2	0.2	4.5	4.5	0.6	0.6	0.7	1.3	0.4	0.4	1.6	1.7	1.5	1.6	1.8	2.0	2.0
Apr-27	0.1	0.1	4.6	4.6	0.6	0.6	1.5	0.8	0.5	0.5	1.7	1.7	1.4	1.5	1.8	2.0	2.1
Apr-28	0.1	0.1	4.4	4.5	0.6	0.6	0.1	0.1	0.5	0.5	1.5	1.9	1.8	1.6	2.0	2.0	2.0
Apr-29	0.1	0.2	4.4	4.4	0.7	0.6	0.4	0.4	0.6	0.6	1.6	1.8	1.5	1.6	2.2	2.0	2.0
Apr-30	0.2	0.1	4.5	4.5	0.5	0.6	0.4	0.2	0.4	0.4	1.6	1.8	1.4	1.6	2.3	2.0	2.1

Apr-06	General					Headworks Primaries Fermenters											
	Natural Gas Totalizer	Elecrical Usage	Electrical Volts	OAT Temp min	OAT Temp max.	Influent Flow	Bar Screen Cycles	Train #1 Prim sludge to Ferm.	Ferm #1 Sludge to Digester	Ferm #1 HRT	Ferm #1 SRT	Ferm #1 Blanket Level	Ferm #2 Blanket Level	Train #2 Prim sludge to Ferm.	Ferm #2 Sludge to Digester	Ferm #2 HRT	Ferm #2 SRT
	(M^3/day)	MWH/day	Volts	Temp (°C)	Temp (°C)	ML / Day		(M^3/day)	(M^3/day)	Hours	Days	(Feet down from top)	(Feet down from top)	(M^3/day)	(M^3/day)	Hours	Days
Min:	0	0	488	-3.0	9.0	12.4	91	210	43	23	4	0	0	245	43	23	4
Max:	39	13	500	9.0	22.0	15.7	116	370	88	40	8	8	7	369	78	34	8
Average:	14	7	495	3.3	14.8	13.7	104	312	59	28	6	4	3	348	54	24	7
Total:	406	208		9.1		409.6	3130	9356	1765					10427	1612		
Apr-1	19	10	496	4.0	15.0	13.5	102	291	53	29	7	4	6	351	51	24	7
Apr-2	22	13	500	3.0	12.0	12.8	103	291	55	29	6	4	5	367	50	23	7
Apr-3	17	6	492	4.0	12.0	13.0	91	281	51	30	7	5	7	340	45	25	8
Apr-4	24	6	496	2.0	10.0	13.3	97	300	52	28	7	6	4	366	45	23	8
Apr-5	27	6	496	5.0	14.0	13.4	99	301	50	28	7	6	4	366	43	23	8
Apr-6	7	5	492	5.0	14.0	13.8	116	301	51	28	7	6	4	366	45	23	8
Apr-7	7	6	500	6.0	19.0	13.4	110	271	51	31	7	6	6	325	45	26	8
Apr-8	10	12	496	-0.7	14.2	13.6	105	260	51	32	7	7	6	245	45	34	8
Apr-9	11	6	496	2.0	16.0	13.2	106	261	51	32	7	7	6	354	45	24	8
Apr-10	12	5	500	8.0	13.0	13.7	104	261	51	32	7	7	4	354	45	24	8
Apr-11	8	8	496	7.0	11.0	13.4	102	300	51	28	7	6	5	336	45	25	8
Apr-12	10	10	496	6.0	15.0	13.6	108	311	51	27	7	5	3	314	45	27	8
Apr-13	12	5	500	8.0	13.0	13.4	109	311	51	27	7	3	2	364	45	23	8
Apr-14	28	6	496	3.2	13.0	14.2	101	320	59	26	6	2	0	362	53	23	7
Apr-15	28	6	496	0.0	10.2	14.1	104	360	70	23	5	0	0	358	64	23	5
Apr-16	39	12	496	2.2	11.0	14.4	109	361	67	23	5	2	0	364	60	23	6
Apr-17	34	0	496	-2.0	9.0	13.3	109	360	68	23	5	1	0	365	51	23	7
Apr-18	25	5	496	-3.0	10.0	13.8	109	361	59	23	6	1	1	367	52	23	7
Apr-19	6	12	496	-3.0	15.0	13.7	100	350	55	24	6	1	0	345	50	24	7
Apr-20	5	6	492	5.0	18.0	13.7	110	351	68	24	5	0	0	366	64	23	5
Apr-21	6	5	492	9.0	15.0	15.7	97	360	83	23	4	0	0	355	74	24	5
Apr-22	9	6	492	7.0	12.0	12.4	116	360	87	23	4	1	3	306	78	27	4
Apr-23	20	6	496	1.0	16.0	13.5	106	350	88	24	4	2	5	365	78	23	4
Apr-24	9	6	492	1.0	17.0	13.6	105	361	88	23	4	5	7	369	78	23	4
Apr-25	4	11	496	2.0	22.0	14.0	106	290	63	29	6	5	2	334	56	25	6
Apr-26	3	6	488	3.0	21.0	13.9	95	211	51	40	7	6	2	356	45	24	8
Apr-27	3	8	488	3.0	18.0	13.7	104	210	51	40	7	7	2	361	51	23	7
Apr-28	1	4	492	2.0	20.0	13.9	106	290	50	29	7	6	4	354	59	24	6
Apr-29	0	5	488	5.0	22.0	14.1	104	370	48	23	7	6	6	344	56	24	6
Apr-30	0	6	496	4.0	17.0	13.7	97	351	43	24	8	8	6	308	48	27	7

Apr-06	Digesters											
	Gas Prod.	Waste Gas Burned	Gas Pressure	Boiler Temp.	Boiler Pressure	Prim. Dig. HRT	Sec. Dig. HRT	Total Sludge to Dig.	Clarity of Supernate	Sec. Dig.	Sec. Dig. Blanket Depth	Sec. Dig. Supernate to plant
	(M^3/day)	(M^3/day)	" WC	°C	KPA	Days	Days	(M^3/day)	1,2,3	# of Rings	ft	(M^3/day)
Min:	142	11	3	40	160	43	23	96	1	0	0	8
Max:	2160	441	7	53	200	88	40	252	3	3	7	160
Average:	689	184	6	50	187	59	28	149	2	2	2	82
Total:	20668	5519						4461				2471
Apr-1	681	99	6	50	195	53	29	104	1	1	6	74
Apr-2	423	25	6	50	200	55	29	104	1	1	6	104
Apr-3	431	89	7	50	200	51	30	136	1	1	5	104
Apr-4	671	185	7	51	190	52	28	147	1	0	5	71
Apr-5	665	123	7	50	190	50	28	107	1	0	7	47
Apr-6	699	126	6	50	190	51	28	96	1	0	2	79
Apr-7	788	160	6	50	195	51	31	122	1	0	4	96
Apr-8	963	175	6	50	200	51	32	96	1	0	5	70
Apr-9	805	112	6	52	200	51	32	96	3	3	0	96
Apr-10	894	152	6	52	200	51	32	136	3	3	0	96
Apr-11	612	48	6	51	190	51	28	136	3	3	0	56
Apr-12	860	107	6	53	190	51	27	96	3	3	0	56
Apr-13	841	132	6	53	190	51	27	134	3	3	0	134
Apr-14	1133	240	4	53	190	59	26	112	3	2	0	58
Apr-15	2160	277	3	50	190	70	23	134	3	3	0	112
Apr-16	1049	387	3	50	180	67	23	127	3	3	0	134
Apr-17	142	376	3	50	170	68	23	168	3	3	0	127
Apr-18	786	204	4	50	170	59	23	186	3	3	0	68
Apr-19	660	63	6	47	170	55	24	202	3	2	0	36
Apr-20	309	183	6	50	180	68	24	192	2	1	0	8
Apr-21	675	291	7	50	190	83	23	197	2	2	0	82
Apr-22	570	350	7	50	190	87	23	230	3	2	0	127
Apr-23	536	359	7	51	183	88	24	231	3	3	0	101
Apr-24	545	311	7	50	180	88	23	252	3	3	0	101
Apr-25	561	273	6	50	180	63	29	205	3	2	0	80
Apr-26	438	441	7	50	185	51	40	183	3	2	0	43
Apr-27	536	174	4	40	160	51	40	102	1	2	0	11
Apr-28	429	11	6	50	180	50	29	181	3	3	0	160
Apr-29	396	16	7	50	180	48	23	104	2	2	4	37
Apr-30	410	30	6	50	190	43	24	145	2	2	6	104

Apr-06	Bioreactor #1				Bioreactor #2				Clarifiers				Effluent							
	T1 Cell 8a	T1 Cell 8b	T1 Cell 9a	T1 Cell 9b	T2 Cell 8a	T2 Cell 8b	T2 Cell 9a	T2 Cell 9b	R.A.S. Clarifier 1	Sludge Blanket 1	R.A.S. Clarifier 2	Sludge Blanket 2	Effluent Flow	Irr. Flow	Cl2 Analyzer	End of Contact Chlorine	Effluent Chlorine	Cl_2	SO_2	Turbidity
	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	%	Depth (feet)	%	Depth (feet)	ML / Day	(M^3/day)	(mg/L)	(mg/l)	(mg/l)	(Kg/day)	(Kg/day)	NTU
Min:	1.1	1.1	1.1	0.6	1.1	1.2	0.9	0.4	0.58	0.0	0.62	0.0	10.2	0	0.7	0.6	0	37	14	0.87
Max:	2.5	3.0	3.0	2.7	2.9	3.0	3.5	3.5	0.88	13.0	0.76	12.0	14.3	3275	2.3	2.6	0	84	36	1.53
Average:	2.0	1.9	1.9	1.5	2.2	2.2	2.1	1.8	0.76	11.1	0.70	10.8	11.5	2034	1.6	1.6	0	62	24	1.15
Total:													346.2	61034	46.5	47.1	0	1845	716	
Apr-1	2.4	2.4	2.4	1.8	2.0	2.0	2.3	2.0	0.67	9.0	0.67	12.0	13.8	99	1.9	2.0	0	60	25	1.32
Apr-2	2.3	3.0	3.0	2.4	2.3	2.5	3.1	2.7	0.71	11.5	0.70	11.5	12.7	99	1.5	1.7	0	60	27	1.18
Apr-3	2.3	2.6	2.6	2.0	2.4	2.5	3.5	3.2	0.76	11.5	0.74	11.0	14.3	0	1.2	1.1	0	65	25	1.07
Apr-4	2.3	2.1	2.1	1.4	2.2	2.0	2.5	2.1	0.72	11.5	0.71	11.0	10.6	2720	1.1	1.3	0	70	19	1.06
Apr-5	2.3	1.9	1.9	1.2	2.1	1.9	2.0	1.6	0.70	12.0	0.67	11.0	10.9	2521	0.9	1.4	0	65	21	1.05
Apr-6	1.1	1.8	1.8	1.5	1.1	1.8	1.3	0.9	0.68	12.0	0.70	12.0	11.1	2571	1.3	1.4	0	72	21	1.13
Apr-7	2.3	2.5	2.5	1.9	1.8	1.5	2.5	2.3	0.58	12.0	0.69	11.0	10.2	2805	0.8	1.0	0	67	23	0.96
Apr-8	2.5	2.0	2.0	1.3	1.9	1.6	2.1	1.8	0.60	12.0	0.69	10.0	11.0	2300	2.2	2.6	0	65	15	1.12
Apr-9	2.0	1.8	1.8	1.3	1.5	1.3	1.6	1.3	0.72	12.0	0.70	12.0	11.5	1613	1.9	1.9	0	77	21	1.15
Apr-10	1.7	1.6	1.6	1.1	1.5	1.2	1.3	0.9	0.73	12.0	0.70	10.0	10.7	2620	2.1	1.9	0	84	20	1.26
Apr-11	1.4	1.2	1.2	0.8	1.6	1.4	1.0	0.7	0.70	12.0	0.68	10.0	11.4	1747	1.4	2.1	0	67	20	1.26
Apr-12	2.1	1.3	1.3	0.8	1.7	1.6	0.9	0.4	0.69	10.0	0.66	10.0	12.4	1941	2.2	2.2	0	66	23	1.44
Apr-13	2.1	1.3	1.3	0.8	1.8	2.2	1.0	0.5	0.66	12.0	0.65	10.0	12.9	1635	2.3	2.2	0	50	33	1.47
Apr-14	1.7	1.5	1.5	1.0	1.8	2.1	1.2	0.6	0.72	12.0	0.62	11.0	14.0	1812	1.3	2.2	0	57	24	1.49
Apr-15	2.0	2.6	2.6	2.6	2.8	2.8	3.3	3.5	0.77	10.5	0.66	10.5	11.8	2188	1.5	1.9	0	57	28	1.53
Apr-16	1.8	1.7	1.7	1.5	2.6	2.7	2.4	2.6	0.81	10.0	0.70	10.0	12.1	2139	1.3	1.3	0	58	28	1.46
Apr-17	2.0	2.6	2.6	2.7	2.9	2.8	2.9	2.8	0.83	0.0	0.74	0.0	10.8	2183	0.7	0.6	0	55	27	1.06
Apr-18	1.8	1.4	1.4	1.0	2.6	2.5	1.3	0.8	0.85	11.0	0.73	12.0	11.7	1508	1.8	1.5	0	62	28	1.33
Apr-19	2.3	1.1	1.1	0.6	2.6	2.4	1.6	1.3	0.81	12.0	0.76	11.0	10.8	2376	2.2	2.1	0	55	36	1.12
Apr-20	1.9	1.1	1.1	0.6	2.6	2.5	1.7	1.4	0.79	13.0	0.71	11.0	11.0	2262	2.2	2.1	0	60	24	1.08
Apr-21	2.0	1.5	1.5	1.2	2.5	2.3	1.9	1.5	0.76	13.0	0.69	12.0	11.5	2883	1.6	1.9	0	55	14	0.97
Apr-22	2.0	1.6	1.6	1.0	2.4	2.1	1.2	0.8	0.78	12.0	0.66	12.0	10.7	2380	1.5	1.7	0	62	36	0.96
Apr-23	2.2	2.1	2.1	1.6	2.6	2.6	2.3	1.9	0.83	12.0	0.73	12.0	11.1	2397	1.4	1.7	0	50	16	1.07
Apr-24	2.1	2.5	2.5	2.1	2.8	3.0	3.1	2.7	0.86	12.0	0.75	12.0	11.4	2451	1.2	1.1	0	52	25	0.98
Apr-25	2.1	2.1	2.1	1.6	2.7	2.7	2.5	2.0	0.87	11.0	0.76	12.0	11.1	2995	1.5	1.2	0	53	25	1.07
Apr-26	2.1	1.9	1.9	1.5	2.7	2.8	3.3	3.0	0.88	11.0	0.72	11.5	11.1	2474	1.4	1.1	0	52	23	0.96
Apr-27	2.1	1.8	1.8	1.4	2.5	2.2	2.3	2.0	0.85	12.0	0.72	12.0	10.5	3275	1.4	1.0	0	37	20	0.87
Apr-28	2.2	2.0	2.0	1.5	2.5	2.1	2.3	1.9	0.86	11.5	0.67	11.0	10.5	61	1.6	1.0	0	70	24	1.03
Apr-29	2.1	1.9	1.9	1.5	2.4	2.0	2.1	1.8	0.86	11.0	0.69	11.5	11.1	2814	1.6	1.1	0	70	21	1.06
Apr-30	2.3	2.4	2.4	2.0	2.4	2.2	2.9	2.7	0.88	10.5	0.75	10.0	11.3	2165	1.6	0.9	0	72	24	1.02

Apr-06	Press												
	Press Temp.	RAS Pressed T-1	RAS Pressed T-2	Poly Added Thick.	Poly Added Press	Bins	Onto Thick.	Off Thickener	Off Press	Thickener Poly Conc.	Press Poly Conc.	Net Bin Weight	Gross Bin Weight
	°C	(M^3/day)	(M^3/day)	# of Bags	# of Bags	#	%	%	%	%	%	Kg	Kg
Min:	0	0	0	0	0	0	0	0	0	0	0	0	0
Max:	20	202	235	1	1	4	2.4	2.4	5.9	0.14	0.19	9605	25660
Average:	11.033	104.17	109.7	0.1667	0.2	1.9	0.13	0.13	0.38	0.01	0.01	623	1690.5
Total:		3125	3291	5	6	57							
Apr-1	10	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0
Apr-2	10	0	0	0	0	0	0.00	0	0	0	0	0	0
Apr-3	10	163	176	1	1	3	0.00	0	0	0	0	0	0
Apr-4	10	125	125	0	0	2	0.00	0	0	0	0	0	0
Apr-5	11	126	0	0	0	2	0.00	0	0	0	0	0	0
Apr-6	11	159	150	1	1	0	0.00	0	0	0	0	0	0
Apr-7	10	149	129	1	1	4	0.00	0	0	0	0	0	0
Apr-8	12	0	0	0	0	0	0.00	0	0	0	0	0	0
Apr-9	16	139	118	0	0	0	0.00	0	0	0	0	0	0
Apr-10	15	176	175	0	0	3	0.00	0	0	0	0	0	0
Apr-11	12	199	220	0	0	3	0.00	0	0	0	0	0	0
Apr-12	12	165	212	1	0	3	0.00	0	0	0	0	0	0
Apr-13	15	0	235	0	1	4	0.00	0	0	0	0	0	0
Apr-14	0	0	0	0	0	0	0.00	0	0	0	0	0	0
Apr-15	0	0	0	0	0	0	0.00	0	0	0	0	0	0
Apr-16	0	0	0	0	0	0	0.00	0	0	0	0	0	0
Apr-17	13	60	60	0	0	0	0.00	0	0	0	0	0	0
Apr-18	14	153	166	0	0	4	0.00	0	0	0	0	0	0
Apr-19	10	152	152	0	0	4	0.00	0	0	0	0	0	0
Apr-20	15	162	173	0	0	2	2.40	2.4	5.4	0.14	0.15	9090	25055
Apr-21	20	151	129	1	1	4	0.00	0	0	0	0	0	0
Apr-22	11	40	41	0	0	0	0.00	0	0	0	0	0	0
Apr-23	11	40	40	0	0	0	0.00	0	0	0	0	0	0
Apr-24	13	166	210	0	0	4	0.00	0	0	0	0	0	0
Apr-25	13	190	173	0	0	4	0.00	0	0	0	0	0	0
Apr-26	12	188	187	0	0	4	0.00	0	0	0	0	0	0
Apr-27	10	202	200	0	0	3	1.40	1.4	5.9	0.14	0.19	9605	25660
Apr-28	12	100	100	0	1	4	0.00	0	0	0	0	0	0
Apr-29	12	0	0	0	0	0	0.00	0	0	0	0	0	0
Apr-30	11	120	120	0	0	0	0.00	0	0	0	0	0	0

Lift Station Hours

May-06	Wilson St.		Lee Ave.		Fairview		Marina St.		Airport		Lakeside N.		Lakeside S.		Alberni		
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3
Min:	0.1	0.1	4.4	4.2	0.5	0.5	0.1	0.0	0.3	0.3	0.6	0.7	1.4	1.4	1.8	1.8	1.8
Max:	0.5	0.5	5.2	5.1	1.0	1.0	0.7	1.3	1.0	1.0	2.2	2.6	3.1	3.5	3.0	2.4	2.5
Avg:	0.1	0.1	4.7	4.7	0.6	0.6	0.2	0.2	0.5	0.5	1.7	1.8	1.9	2.0	2.3	2.0	2.0
Total:	4.5	4.6	145.6	145.7	20.1	20.1	6.4	6.3	14.9	15.0	51.3	56.8	58.4	60.9	71.7	62.9	63.5
May-1	0.1	0.1	4.8	4.7	0.7	0.7	0.2	0.0	0.4	0.4	1.5	1.8	1.7	1.6	2.2	2.0	2.0
May-2	0.1	0.1	4.7	4.8	0.6	0.6	0.2	0.4	0.4	0.4	1.6	1.7	1.5	1.6	2.2	2.0	2.0
May-3	0.2	0.2	4.5	4.5	0.6	0.6	0.7	1.3	0.4	0.4	1.6	1.7	1.5	1.6	1.8	2.0	2.0
May-4	0.4	0.4	4.6	4.6	0.7	0.7	0.1	0.1	0.4	0.4	1.5	1.7	1.4	1.6	2.3	2.0	2.1
May-5	0.3	0.3	4.6	4.7	0.5	0.5	0.2	0.2	0.5	0.5	1.5	1.6	1.5	1.4	2.3	2.0	2.1
May-6	0.1	0.2	4.4	4.4	0.7	0.6	0.4	0.4	0.6	0.6	1.6	1.8	1.5	1.6	2.2	2.0	2.0
May-7	0.2	0.1	4.5	4.5	0.5	0.6	0.4	0.2	0.4	0.4	1.6	1.8	1.4	1.6	2.3	2.0	2.1
May-8	0.1	0.1	4.8	4.7	0.7	0.7	0.2	0.0	0.4	0.4	1.5	1.8	1.7	1.6	2.2	2.0	2.0
May-9	0.1	0.1	5.2	5.1	0.7	0.7	0.2	0.1	0.6	0.6	1.8	1.6	1.5	1.7	2.2	1.9	1.9
May-10	0.1	0.1	4.5	4.8	0.6	0.7	0.2	0.1	0.6	0.6	1.7	1.6	1.5	1.7	2.2	2.0	2.0
May-11	0.2	0.1	4.4	4.2	0.6	0.6	0.2	0.2	0.6	0.6	0.6	0.7	1.4	1.6	2.3	2.0	1.8
May-12	0.2	0.1	4.6	4.9	0.7	0.7	0.2	0.2	0.5	0.5	0.6	0.7	1.4	1.5	2.2	2.0	2.0
May-13	0.1	0.1	4.5	4.5	0.6	0.6	0.2	0.1	0.6	0.6	1.5	1.6	1.6	1.4	2.3	1.9	2.0
May-14	0.1	0.2	4.4	4.4	0.7	0.6	0.3	0.4	0.4	0.4	1.3	1.6	1.5	1.6	2.4	2.0	2.0
May-15	0.1	0.1	4.5	4.5	0.5	0.5	0.2	0.2	0.4	0.4	1.4	1.5	1.5	1.6	2.2	1.9	1.9
May-16	0.1	0.1	4.5	4.5	0.5	0.5	0.2	0.2	0.4	0.4	1.3	1.4	1.6	1.5	2.1	1.8	1.9
May-17	0.2	0.1	4.4	4.4	0.6	0.7	0.2	0.2	0.5	0.5	1.3	1.6	1.5	1.6	2.2	1.9	1.9
May-18	0.1	0.1	4.4	4.4	0.6	0.6	0.2	0.2	1.0	1.0	1.7	1.8	1.5	1.7	2.3	1.9	1.9
May-19	0.1	0.2	4.4	4.4	0.7	0.6	0.3	0.4	0.4	0.4	1.3	1.6	1.5	1.6	2.4	2.0	2.0
May-20	0.5	0.5	4.6	4.6	0.7	0.7	0.1	0.1	0.6	0.6	1.9	2.1	1.6	1.6	2.2	1.9	2.0
May-21	0.1	0.1	5.2	5.1	1.0	1.0	0.2	0.2	0.5	0.5	2.0	2.1	2.0	2.1	3.0	2.4	2.5
May-22	0.1	0.2	4.9	4.9	0.7	0.7	0.1	0.1	0.3	0.3	1.8	2.0	1.5	1.8	2.6	2.1	2.3
May-23	0.1	0.2	5.0	5.0	0.8	0.8	0.1	0.1	0.5	0.5	2.1	2.3	1.8	1.9	2.5	2.2	2.2
May-24	0.1	0.1	4.8	4.8	0.6	0.6	0.2	0.1	0.4	0.4	2.1	2.5	2.5	2.4	2.3	2.0	2.0
May-25	0.1	0.1	4.9	4.8	0.6	0.7	0.2	0.1	0.4	0.5	2.1	2.5	2.5	2.4	2.4	2.2	2.0
May-26	0.1	0.1	4.9	5.0	0.7	0.7	0.1	0.1	0.6	0.6	2.0	2.3	3.0	3.1	2.4	2.1	2.1
May-27	0.1	0.1	4.8	4.8	0.6	0.6	0.1	0.1	0.5	0.5	2.0	2.3	3.1	3.1	2.3	2.1	2.1
May-28	0.1	0.1	5.1	4.8	0.7	0.7	0.2	0.1	0.3	0.3	2.2	2.1	3.1	3.4	2.7	2.2	2.4
May-29	0.1	0.1	5.0	5.0	0.7	0.6	0.1	0.1	0.3	0.3	2.0	2.3	3.1	3.5	2.4	2.2	2.2
May-30	0.1	0.1	4.9	5.1	0.7	0.7	0.1	0.1	0.5	0.5	2.0	2.6	3.1	3.3	2.3	2.1	2.1
May-31	0.1	0.1	4.8	4.8	0.5	0.5	0.1	0.2	0.5	0.5	2.2	2.1	2.4	2.2	2.3	2.1	2.0

May-06	General					Headworks Primaries Fermenters											
	Natural Gas Totalizer	Electrical Usage	Electrical Volts	OAT Temp min	OAT Temp max.	Influent Flow	Bar Screen Cycles	Train #1 Prim sludge to Ferm.	Ferm #1 Sludge to Digester	Ferm #1 HRT	Ferm #1 SRT	Ferm #1 Blanket Level	Ferm #2 Blanket Level	Train #2 Prim sludge to Ferm.	Ferm #2 Sludge to Digester	Ferm #2 HRT	Ferm #2 SRT
	(M^3/day)	MWH/day	Volts	Temp (°C)	Temp (°C)	ML / Day		(M^3/day)	(M^3/day)	Hours	Days	(Feet down from top)	(Feet down from top)	(M^3/day)	(M^2/day)	Hours	Days
Min:	0	5	392	-2	10	13.7	67	220	31	22	4	0	0	299	30	23	4
Max:	9	12	504	14	34	16.7	132	390	94	38	11	10	9	370	90	28	12
Avg:	2	7	491	6	20	14.7	106	355	61	24	6	4	4	348	59	24	6
Total:	69	231		13.0		456.2	3272	10992	1902					10785	1826		
May-1	2	12	496	7.0	13.0	13.8	103	360	41	23	9	7	9	365	44	23	8
May-2	7	5	492	1.0	12.0	14.5	121	341	31	25	11	9	2	366	30	23	12
May-3	4	6	488	2.0	12.0	14.2	93	370	43	23	8	2	2	343	38	24	9
May-4	4	6	496	1.0	10.0	13.7	104	361	58	23	6	3	3	355	52	24	7
May-5	0	6	496	1.0	10.0	14.1	103	361	60	23	6	5	2	330	54	25	6
May-6	0	5	500	4.0	12.0	14.5	92	341	61	25	6	6	5	359	54	23	6
May-7	0	12	492	7.0	12.0	14.7	107	380	58	22	6	8	0	302	51	28	7
May-8	2	6	492	7.0	10.0	14.0	97	351	51	24	7	0	0	299	45	28	8
May-9	7	6	496	4.0	11.0	14.6	100	281	51	30	7	0	0	361	45	23	8
May-10	1	5	492	-2.0	10.0	14.4	104	220	55	38	6	3	0	318	55	26	6
May-11	3	7	496	2.0	18.0	14.5	108	350	59	24	6	1	0	347	64	24	5
May-12	1	11	496	2.0	19.0	14.7	131	381	74	22	5	0	0	365	72	23	5
May-13	3	5	496	4.0	22.0	14.4	103	380	74	22	5	3	1	338	74	25	5
May-14	3	6	500	4.0	26.0	14.0	93	390	76	22	5	3	3	359	76	23	5
May-15	0	12	496	3.0	26.0	14.2	94	371	62	23	6	6	3	367	62	23	6
May-16	1	5	496	9.0	34.0	14.8	104	381	57	22	6	6	4	359	64	23	5
May-17	0	6	496	9.0	34.0	14.7	67	381	68	22	5	4	4	368	66	23	5
May-18	0	6	496	11.0	34.0	15.0	111	380	67	22	5	4	2	345	66	24	5
May-19	0	12	500	13.0	31.0	15.2	115	380	75	22	5	3	2	369	74	23	5
May-20	0	5	500	13.0	29.0	15.3	109	370	88	23	4	1	2	367	84	23	4
May-21	0	12	500	14.0	22.0	16.7	97	380	94	22	4	0	7	370	90	23	4
May-22	1	6	460	8.0	23.0	14.4	99	380	89	22	4	4	8	342	78	25	4
May-23	0	5	496	10.0	18.0	15.4	129	330	83	25	4	6	8	330	72	25	5
May-24	0	12	504	11.0	18.0	15.0	109	310	75	27	5	7	9	339	64	25	5
May-25	8	6	504	8.0	18.0	15.5	132	310	58	27	6	9	8	326	50	26	7
May-26	3	5	392	6.0	18.0	15.0	104	360	40	23	9	10	7	363	45	23	8
May-27	6	6	504	9.0	19.0	14.7	106	360	34	23	10	8	6	361	45	23	8
May-28	9	12	504	7.0	20.0	15.2	111	340	45	25	8	6	7	349	49	24	7
May-29	2	6	496	10.0	22.0	14.9	109	371	49	23	7	8	2	327	49	26	7
May-30	2	5	480	6.0	23.0	15.2	105	371	60	23	6	1	4	361	55	23	6
May-31	0	12	480	6.0	22.0	14.9	112	350	68	24	5	2	4	335	56	25	6

May-06	Digesters											
	Gas Prod.	Waste Gas Burned	Gas Pressure	Boiler Temp.	Boiler Pressure	Prim. Dig. HRT	Sec. Dig. HRT	Total Sludge to Dig.	Clarity of Supernate	Sec. Dig.	Sec. Dig. Blanket Depth	Sec. Dig. Supernate to plant
	(M^3/day)	(M^3/day)	" WC	°C	KPA	Days	Days	(M^3/day)	1,2,3	# of Rings	ft	(M^3/day)
Min:	200	15	5	50	130	31	22	81	0	0	0	7
Max:	1024	502	7	65	188	94	38	300	3	3	8	184
Avg:	554	209	7	55	178	61	24	176	2	1	2	67
Total:	17175	6474						5469				2088
May-1	417	67	7	50	180	41	23	125	2	1	3	37
May-2	444	46	6	53	170	31	25	105	1	1	3	45
May-3	468	15	7	50	175	43	23	81	1	1	1	30
May-4	569	166	6	55	175	58	23	168	1	1	3	81
May-5	595	226	7	58	175	60	23	177	1	0	2	52
May-6	535	303	7	65	180	61	25	115	3	3	0	51
May-7	615	199	7	57	175	58	22	109	2	3	0	115
May-8	396	96	7	53	180	51	24	182	2	2	0	109
May-9	352	16	5	55	130	51	30	154	1	0	3	10
May-10	562	36	7	55	175	55	38	175	1	0	3	49
May-11	584	113	6	57	180	59	24	238	1	0	5	45
May-12	479	210	7	60	180	74	22	226	1	0	3	8
May-13	1024	343	7	55	180	74	22	263	1	2	0	66
May-14	528	341	7	55	180	76	22	267	2	2	0	33
May-15	504	297	7	55	180	62	23	161	2	2	2	37
May-16	733	245	7	55	180	57	22	207	2	2	0	114
May-17	200	499	7	55	180	68	22	134	2	2	0	46
May-18	749	502	7	55	180	67	22	198	2	1	2	134
May-19	751	230	7	55	185	75	22	234	1	0	0	68
May-20	781	417	7	53	188	88	23	300	2	2	0	64
May-21	547	336	7	53	185	94	22	184	2	2	0	44
May-22	555	373	7	53	185	89	22	195	2	1	0	184
May-23	874	434	7	53	180	83	25	205	2	0	0	139
May-24	571	313	6	53	180	75	27	264	0	0	0	153
May-25	651	155	7	55	180	58	27	119	0	0	0	14
May-26	414	39	7	55	180	40	23	86	0	0	4	178
May-27	339	33	7	55	180	34	23	129	2	2	5	86
May-28	429	68	7	55	180	45	25	181	2	2	7	29
May-29	413	91	7	55	180	49	23	185	2	1	6	7
May-30	748	114	7	57	180	60	23	181	2	2	8	11
May-31	348	151	7	58	180	68	24	124	2	2	6	51

May-06	Bioreactor #1				Bioreactor #2				Clarifiers				Effluent							
	T1 Cell 8a	T1 Cell 8b	T1 Cell 9a	T1 Cell 9b	T2 Cell 8a	T2 Cell 8b	T2 Cell 9a	T2 Cell 9b	R.A.S. Clarifier 1	Sludge Blanket 1	R.A.S. Clarifier 2	Sludge Blanket 2	Effluent Flow	Irr. Flow	Cl2 Analyzer	End of Contact Chlorine	Effluent Chlorine	Cl_2	SO_2	Turbidity
	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	%	Depth (feet)	%	Depth (feet)	ML / Day	(M^3/day)	(mg/L)	(mg/l)	(mg/l)	(Kg/day)	(Kg/day)	NTU
Min:	1.8	1.2	1.2	0.7	1.6	1.4	0.2	0.7	0.71	7.0	0.62	9.0	6.8	1187	1.1	0.7	0.00	37	15	0.49
Max:	3.0	3.6	3.6	3.5	3.0	3.5	3.7	3.9	0.92	12.5	0.81	12.0	13.2	3720	2.1	1.5	0.00	94	29	2.24
Avg:	3.0	2.1	2.1	3.5	2.3	2.3	2.0	2.1	0.82	10.3	0.73	10.8	10.5	2844	1.6	1.1	0.00	60	24	1.06
Total:													324.2	88165				1856	734	
May-1	2.3	2.3	2.3	2.0	2.3	2.1	2.6	2.3	0.81	10.5	0.71	10.5	10.2	3247	1.6	1.0	0.00	65	15	1.06
May-2	2.4	1.8	1.8	1.3	2.1	1.7	1.4	1.0	0.82	11.0	0.75	11.0	12.6	1187	1.6	1.2	0.00	58	24	1.28
May-3	2.4	1.8	1.8	1.4	2.3	1.9	1.9	1.6	0.83	12.0	0.74	12.0	10.7	2976	1.6	1.2	0.00	61	24	1.12
May-4	2.3	2.0	2.0	1.6	2.2	1.9	2.3	2.1	0.85	12.0	0.76	12.0	11.7	2976	1.6	1.0	0.00	60	20	1.23
May-5	2.3	1.8	1.8	1.4	2.2	1.8	2.2	2.0	0.87	12.0	0.79	12.0	9.9	3202	1.6	1.2	0.00	93	29	1.17
May-6	2.4	1.8	1.8	1.3	2.2	1.9	2.7	2.8	0.88	10.5	0.81	11.0	6.8	3412	1.5	1.2	0.00	94	27	1.18
May-7	2.4	1.9	1.9	1.5	2.2	1.8	2.7	2.8	0.86	12.0	0.81	11.5	13.2	3412	1.7	1.1	0.00	58	21	1.13
May-8	2.5	1.9	1.9	1.5	2.2	1.8	2.9	3.0	0.90	10.5	0.81	12.0	11.0	2542	1.7	1.1	0.00	60	23	1.01
May-9	2.6	1.8	1.8	1.4	2.4	2.0	3.0	3.3	0.88	10.5	0.81	10.0	11.3	2507	1.6	1.5	0.00	52	25	1.15
May-10	3.0	2.5	2.5	2.1	2.1	1.6	1.5	1.5	0.73	11.5	0.78	10.0	9.2	2507	1.8	1.2	0.00	42	24	1.18
May-11	2.5	2.1	2.1	1.7	2.3	2.0	1.5	1.2	0.74	11.0	0.75	10.0	9.3	3595	1.6	1.2	0.00	54	24	1.20
May-12	2.1	1.6	1.6	1.1	2.6	2.5	2.1	2.4	0.74	11.0	0.72	10.5	10.2	3141	1.6	1.4	0.00	37	24	1.42
May-13	1.9	1.7	1.7	1.1	2.2	2.0	1.1	1.6	0.73	12.0	0.69	11.0	10.5	2796	1.6	1.4	0.00	38	25	1.17
May-14	2.3	2.9	2.9	2.5	1.6	1.4	0.2	0.7	0.77	10.5	0.69	10.5	10.3	3057	1.6	1.3	0.00	52	25	1.06
May-15	2.2	3.5	3.5	3.2	1.6	1.5	0.8	1.2	0.77	10.0	0.72	11.0	9.1	3316	1.6	1.1	0.00	57	23	0.94
May-16	2.3	3.5	3.5	3.3	1.8	1.7	0.7	1.1	0.77	9.0	0.72	10.0	10.4	3152	1.6	1.0	0.00	63	24	0.86
May-17	2.2	3.6	3.6	3.5	2.3	2.3	1.4	2.6	0.78	10.0	0.71	10.0	9.4	3720	1.5	0.8	0.00	61	24	1.04
May-18	2.2	2.0	2.0	1.6	2.5	2.5	2.7	2.7	0.75	11.0	0.62	12.0	9.1	3371	2.1	1.0	0.00	57	24	0.83
May-19	1.9	1.4	1.4	1.0	2.6	2.7	1.6	1.5	0.71	12.0	0.67	12.0	8.8	3330	2.0	1.3	0.00	54	24	1.01
May-20	2.2	1.6	1.6	0.7	2.7	2.9	1.6	1.4	0.73	12.5	0.67	12.0	9.7	3330	1.6	1.3	0.00	50	24	0.99
May-21	1.9	1.7	1.7	0.8	3.0	3.3	2.2	2.3	0.87	11.5	0.75	11.0	12.7	2496	1.6	1.3	0.00	48	24	0.79
May-22	2.2	1.9	1.9	1.1	2.9	3.3	3.3	3.4	0.86	10.5	0.75	11.0	11.4	2606	1.6	1.2	0.00	67	21	0.71
May-23	1.9	2.0	2.0	2.7	3.0	3.5	3.7	3.9	0.87	10.0	0.76	11.0	11.6	2605	1.5	1.4	0.00	65	23	0.71
May-24	1.8	3.0	3.0	3.2	2.8	3.3	2.9	3.2	0.92	10.5	0.69	11.0	10.0	2605	1.6	1.3	0.00	48	24	0.49
May-25	1.9	2.5	2.5	2.7	2.0	2.0	2.0	2.1	0.91	8.0	0.79	9.0	12.7	2227	1.6	1.1	0.00	64	24	0.80
May-26	1.8	3.0	3.0	3.2	2.1	2.3	2.8	3.2	0.90	7.0	0.75	10.0	10.9	2370	1.6	0.7	0.00	73	24	0.78
May-27	2.1	1.8	1.8	1.5	2.2	2.4	2.2	2.1	0.86	8.0	0.72	11.0	11.1	2381	1.6	0.7	0.00	73	24	0.82
May-28	2.0	1.2	1.2	0.8	2.4	2.6	2.3	2.3	0.84	7.0	0.73	9.0	11.0	2389	1.6	1.0	0.00	65	24	1.08
May-29	1.9	1.2	1.2	0.7	2.3	2.6	2.2	2.4	0.85	8.0	0.74	9.0	10.3	2385	1.6	1.2	0.00	60	25	1.20
May-30	2.1	1.4	1.4	0.9	2.4	2.4	1.8	1.7	0.83	9.0	0.69	10.0	9.8	2638	1.6	1.0	0.00	64	24	1.35
May-31	2.3	2.1	2.1	1.8	2.4	2.4	1.6	1.2	0.81	9.0	0.65	11.0	9.6	2687	1.1	1.2	0.00	63	24	2.24

May-06	Press											
	Press Temp.	RAS Pressed T-1	RAS Pressed T-2	Poly Added Thick.	Poly Added Press	Bins	Off Thickener	Off Press	Thickener Poly Conc.	Press Poly Conc.	Net Bin Weight	Gross Bin Weight
	°C	(M^3/day)	(M^3/day)	# of Bags	# of Bags	#	%	%	%	%	Kg	Kg
Min:	10	0	0	0	0	0	0	0	0	0	0	0
Max:	22	200	180	1	2	4	2.1	6.3	0.19	0.22	10045	25420
Avg:	16.43	113.37	84.833	0.1667	0.2	1.827586	0.168	0.57	0.018	0.018	1306	847.33
Total:		3401	2545	5	7	53						
May-1	13	180	140.00	1	1	3	0.00	0.00	0.00	0.00	0.00	0
May-2	12	74	78	0	0	3	0	0	0	0	0	0
May-3	14	0	0	0	0	1	0	0	0	0	0	0
May-4	19	137	0	0	0	0	2.1	6.3	0.16	0.19	9544	25420
May-5	21	126	69	0	0	3	0	0	0	0	0	0
May-6	22	132	180	0	0	0	0	0	0	0	0	0
May-7	15	0	0	0	0	0	0	0	0	0	0	0
May-8	15	175	87	1	1	4	0	0	0	0	0	0
May-9	14	200	178	0	0	4	0	0	0	0	0	0
May-10	18	158	102	0	0	0	0	0	0	0	0	0
May-11	12	150	175	0	0	3	1.78	5.12	0.19	0.22	0	0
May-12	10	125	150	1	1	4	0	0	0	0	0	0
May-13	12	0	0	0	0	0	0	0	0	0	0	0
May-14	13	0	0	0	0	0	0	0	0	0	0	0
May-15	15	100	108	0	0	2	0	0	0	0	0	0
May-16	20	183	150	0	0	3	0	0	0	0	0	0
May-17	20	125	153	0	0	2	0	0	0	0	0	0
May-18	18	157	150	1	1	3	1.16	5.7	0.19	0.13	0	0
May-19	22	157	150	0	0	4	0	0	0	0	0	0
May-20	20	157	150	0	2	0	0	0	0	0	0	0
May-21	15	0	0	0	0	0	0	0	0	0	0	0
May-22	16	0	0	0	0	0	0	0	0	0	0	0
May-23	17	155	156	0	0		0	0	0	0	0	0
May-24	17	100	0	0	0	3	0	0	0	0	0	0
May-25	17	180	145	0	0	3	0	0	0	0	10045	0
May-26	17	125	0	0	0	3	0	0	0	0	9960	0
May-27	18	125	0	1	1	0	0	0	0	0	0	0
May-28	17	100	0	0	0	0	0	0	0	0	0	0
May-29	16	155	147	0	0	3	0	0	0	0	9630	0
May-30	18	125	77	0	0	2	0	0	0	0	0	0
May-31	20	125	125	0	0	2	0	0	0	0	0	0

Lift Station Hours

Jun-06	Wilson St.		Lee Ave.		Fairview		Marina St.		Airport		Lakeside N.		Lakeside S.		Alberni		
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3
Min:	**0.1**	**0.1**	4.4	4.2	0.5	0.5	0.1	0.1	0.3	0.3	0.0	0.0	1.4	1.5	2.2	1.9	2.0
Max:	**0.5**	**0.5**	5.4	5.2	1.0	1.0	0.3	0.5	0.7	0.7	2.9	3.1	4.1	4.2	3.1	2.6	2.7
Avg:	**0.2**	**0.2**	5.0	4.8	0.6	0.6	0.2	0.2	0.5	0.5	1.7	1.9	2.9	3.0	2.5	2.2	2.2
Total:	**4.6**	**4.8**	148.6	145.1	19.0	18.8	4.5	4.8	14.0	14.1	51.3	57.4	85.8	90.5	74.4	66.0	66.7
Jun-1	0.1	0.1	5.0	5.0	0.7	0.6	0.1	0.1	0.3	0.3	2.0	2.3	3.1	3.5	2.4	2.2	2.2
Jun-2	0.2	0.1	4.6	4.9	0.7	0.7	0.2	0.2	0.5	0.5	0.6	0.7	2.8	2.8	2.2	2.0	2.0
Jun-3	0.1	0.1	4.5	4.5	0.6	0.6	0.2	0.1	0.6	0.6	0.1	0.0	2.6	2.6	2.3	1.9	2.0
Jun-4	0.1	0.2	4.4	4.4	0.7	0.6	0.3	0.4	0.4	0.4	0.0	0.2	2.4	2.5	2.4	2.0	2.0
Jun-5	0.3	0.3	4.7	4.8	0.7	0.7	0.1	0.1	0.4	0.4	0.2	0.0	2.2	2.2	2.2	2.0	2.0
Jun-6	0.1	0.1	4.9	4.8	0.6	0.7	0.2	0.1	0.4	0.5	2.1	2.5	2.5	2.4	2.4	2.2	2.0
Jun-7	0.2	0.1	4.8	4.6	0.6	0.6	0.1	0.1	0.5	0.5	0.1	0.1	2.0	2.2	2.3	2.0	2.0
Jun-8	0.1	0.1	5.1	4.2	0.5	0.5	0.1	0.2	0.7	0.7	0.0	0.1	2.1	2.3	2.4	2.1	2.0
Jun-9	0.1	0.1	4.7	4.5	0.6	0.6	0.2	0.2	0.6	0.6	0.0	0.1	2.2	2.2	3.1	2.6	2.7
Jun-10	0.1	0.2	4.9	4.7	0.6	0.6	0.2	0.2	0.5	0.5	2.3	0.0	2.2	2.2	2.4	2.2	2.2
Jun-11	0.1	0.1	4.9	5.0	0.6	0.6	0.2	0.1	0.6	0.6	2.9	1.3	2.5	2.4	2.4	2.1	2.2
Jun-12	0.2	0.2	5.4	5.2	0.6	0.5	0.1	0.1	0.4	0.4	2.2	2.2	2.6	2.7	2.5	2.3	2.3
Jun-13	0.1	0.2	5.2	5.0	0.5	0.5	0.1	0.1	0.4	0.4	1.9	2.5	2.3	2.6	2.4	2.2	2.2
Jun-14	0.1	0.1	5.1	4.2	0.5	0.5	0.1	0.2	0.7	0.7	2.2	2.2	2.1	2.3	2.4	2.1	2.0
Jun-15	0.2	0.3	4.9	5.0	0.6	0.6	0.2	0.5	0.7	0.7	2.2	2.7	2.9	3.2	2.7	2.4	2.5
Jun-16	0.1	0.1	5.0	4.9	0.6	0.7	0.1	0.1	0.6	0.6	2.3	2.5	3.7	3.9	2.7	2.3	2.5
Jun-17	0.3	0.3	5.0	5.1	0.6	0.6	0.1	0.1	0.7	0.7	2.1	2.7	3.7	4.2	2.6	2.5	2.5
Jun-18	0.1	0.1	5.1	5.0	0.6	0.7	0.1	0.1	0.4	0.4	2.2	2.9	4.0	4.2	2.8	2.5	2.5
Jun-19	0.1	0.1	5.3	5.1	0.7	0.7	0.1	0.1	0.3	0.3	2.5	2.4	4.0	4.2	2.7	2.3	2.4
Jun-20	0.1	0.1	5.3	5.1	0.7	0.7	0.1	0.1	0.4	0.4	2.0	2.9	4.1	4.2	2.5	2.2	2.3
Jun-21	0.1	0.1	5.0	4.9	0.7	0.7	0.1	0.1	0.5	0.5	2.0	3.1	3.9	4.2	2.4	2.1	2.1
Jun-22	0.3	0.3	5.0	4.9	0.8	0.7	0.3	0.2	0.5	0.5	2.0	2.7	3.7	4.0	2.4	2.1	2.2
Jun-23	0.1	0.1	5.0	4.8	0.6	0.6	0.1	0.1	0.4	0.4	2.0	2.6	3.6	3.9	2.4	2.2	2.1
Jun-24	0.2	0.2	4.9	4.9	0.6	0.6	0.1	0.2	0.3	0.3	2.6	2.4	3.7	3.8	2.6	2.2	2.4
Jun-25	0.5	0.5	5.1	5.0	0.6	0.6	0.2	0.2	0.3	0.3	2.2	2.8	3.7	3.9	2.8	2.5	2.5
Jun-26	0.2	0.2	5.2	5.2	0.5	0.5	0.2	0.1	0.3	0.3	2.2	3.0	3.6	4.1	2.6	2.3	2.4
Jun-27	0.1	0.1	5.2	5.1	0.6	0.6	0.1	0.1	0.4	0.4	2.1	2.7	3.0	3.0	2.3	2.1	2.1
Jun-28	0.1	0.1	5.0	4.8	0.5	0.5	0.2	0.2	0.4	0.4	2.1	2.7	1.4	1.5	2.3	2.0	2.1
Jun-29	0.1	0.1	4.6	4.8	0.8	0.7	0.2	0.2	0.4	0.4	2.1	2.5	1.4	1.6	2.3	2.2	2.1
Jun-30	0.1	0.1	4.8	4.7	1.0	1.0	0.1	0.2	0.4	0.4	2.1	2.6	1.8	1.7	2.5	2.2	2.2

Jun-06	General			Head Works / Primary Clarification / Fermenters												
	Natural Gas Totalizer	Ambient Temp min	Ambient Temp max.	Influent Flow	Bar Screen Cycles	Train #1 Prim sludge to Ferm.	Ferm #1 Sludge to Digester	Ferm #1 HRT	Ferm #1 SRT	Ferm #1 Blanket Level	Ferm #2 Blanket Level	Train #2 Prim sludge to Ferm.	Ferm #2 Sludge to Digester	Ferm #2 HRT	Ferm #2 SRT
	(M^3/day)	Temp (°C)	Temp (°C)	ML / Day		(M^3/day)	(M^3/day)	Hours	Days	(Feet down from top)	Feet down from top)	(M^3/day)	(M^3/day)	Hours	Days
Min:	0	0	0	13.9	81	290	34	23	5	2	1	295	29	23	5
Max:	11	18	37	16.2	118	370	68	29	10	10	11	371	64	28	12
Avg:	1	10	23	14.8	100	351	57	24	6	8	7	350	50	24	7
Total:	24	16.5		444.8	2985	10516	1713					10514	1504		
Jun-1	0	8.0	24.0	15.1	102	320	68	26	5	4	4	365	56	23	6
Jun-2	0	15.0	25.0	15.2	100	351	58	24	5	6	1	364	60	23	5
Jun-3	0	15.0	22.0	16.2	114	361	57	23	5	2	1	332	60	25	5
Jun-4	1	8.0	23.0	14.8	93	360	58	23	5	3	2	339	60	25	5
Jun-5	1	13.0	20.0	14.1	83	370	58	23	5	2	5	362	60	23	5
Jun-6	0	13.0	24.0	15.7	103	360	58	23	5	6	5	364	60	23	5
Jun-7	0	12.0	27.0	14.9	118	370	58	23	5	6	5	358	60	23	5
Jun-8	0	13.0	26.0	15.0	105	350	58	24	5	7	5	356	60	24	5
Jun-9	0	12.0	28.0	15.9	112	361	56	23	5	7	4	329	60	26	5
Jun-10	0	11.0	24.0	14.7	93	340	52	25	6	7	3	367	64	23	5
Jun-11	0	10.0	21.0	14.2	88	360	57	23	6	9	10	366	59	23	5
Jun-12	0	11.0	24.0	15.1	94	361	54	23	6	10	11	364	54	23	5
Jun-13	1	10.0	23.0	15.8	105	351	51	24	6	10	3	359	52	23	7
Jun-14	1	9.0	12.0	15.5	104	361	59	23	6	6	5	364	52	23	7
Jun-15	0	12.0	15.0	15.0	101	351	58	24	6	9	5	344	48	24	7
Jun-16	7	13.0	23.0	14.6	96	361	58	23	6	9	7	333	48	25	7
Jun-17	0	7.0	24.0	15.3	102	341	58	25	6	9	3	338	48	25	7
Jun-18	0	11.0	23.0	14.4	89	310	58	27	6	8	3	340	48	25	7
Jun-19	11	8.0	30.0	13.9	81	290	59	29	6	10	3	295	48	28	7
Jun-20	0	11.0	23.0	14.8	103	331	59	25	6	9	3	314	48	27	7
Jun-21	0	7.0	24.0	14.3	105	360	59	23	6	8	7	348	48	24	7
Jun-22	1	8.0	25.0	14.4	99	360	54	23	6	7	3	348	44	24	8
Jun-23	0	0.0	0.0	14.3	100	361	49	23	7	9	5	345	39	24	9
Jun-24	0	0.0	0.0	14.1	94	361	52	23	7	6	3	371	44	23	8
Jun-25	0	0.0	0.0	14.7	103	361	53	23	7	9	3	370	43	23	8
Jun-26	0	18.0	32.0	14.0	95	350	45	24	8	9	3	338	39	25	9
Jun-27	1	14.0	37.0	14.7	94	341	41	25	8	10	7	359	39	23	9
Jun-28	0	13.0	34.0	15.0	110	350	39	24	9	9	3	360	41	23	8
Jun-29	0	16.0	33.0	14.4	100	351	36	24	10	10	3	355	29	24	12
Jun-30	0	14.0	31.0	14.6	99	361	34	23	10	9	4	367	30	23	12

Jun-06	Digesters											
	Gas Prod.	Waste Gas Burned	Gas Pressure	Boiler Temp.	Boiler Pressure	Prim. Dig. HRT	Sec. Dig. HRT	Total Sludge to Dig.	Clarity of supernate	Sec. Dig.	Sec. Dig. Blanket Depth	Sec. Dig. Supernate to plant
	(M^3/day)	(M^3/day)	" WC	°C	KPA	Days	Days	(M^3/day)	1,2,3	# of Rings	ft	(M^3/day)
Min:	325	0	4	38	0	34	23	64	1	0	0	-68
Max:	1244	783	10	80	190	68	29	283	7	3	10	128
Avg:	570	301	6	56	159	57	24	158	1	0	7	60
Total:	17101	9017						4730				1794
Jun-1	700	271	7	60	180	68	26	189	1	0	6	124
Jun-2	619	242	7	58	180	68	24	226	2	0	4	59
Jun-3	583	529	7	57	190	67	23	283	1	0	3	30
Jun-4	325	118	7	55	180	68	23	128	1	0	5	-29
Jun-5	392	148	7	55	180	68	23	193	1	0	5	128
Jun-6	361	166	7	58	180	68	23	179	1	0	5	63
Jun-7	402	195	7	55	180	68	23	193	1	0	5	79
Jun-8	382	438	7	70	160	68	24	216	1	0	7	63
Jun-9	1244	140	7	65	170	66	23	161	1	0	5	40
Jun-10	498	122	6	55	160	62	25	126	1	3	5	91
Jun-11	431	121	6	55	160	57	23	180	1	1	5	126
Jun-12	435	150	6	55	160	54	23	178	1	1	5	50
Jun-13	1117	539	7	58	160	61	24	140	1	1	5	38
Jun-14	384	738	off	80	180	59	23	168	1	0	5	86
Jun-15	513	268	4	off	0	58	24	142	1	0	5	54
Jun-16	504	241	4	60	150	58	23	162	1	0	5	70
Jun-17	882	201	5	52	150	58	25	280	1	0	5	50
Jun-18	597	152	7	50	150	58	27	106	1	0	3	-68
Jun-19	350	3	10	53	153	59	29	150	1	0	7	106
Jun-20	998	260	5	38	155	59	25	150	1	0	8	64
Jun-21	705	278	8	55	155	59	23	157	1	0	3	74
Jun-22	553	492	8	55	155	54	23	134	1	0	8	57
Jun-23	818	243	4	80	170	49	23	88	1	0	10	62
Jun-24	621	249	6	61	155	52	23	96	1	0	10	88
Jun-25	421	783	5	45	150	53	23	96	1	0	10	96
Jun-26	509	182	7	40	150	45	24	143	1	0	3	96
Jun-27	453	204	5	38	170	41	25	145	7	0	3	27
Jun-28	404	657	7	55	170	39	24	146	1	0	3	15
Jun-29	557	628	6	80	185	36	24	111	1	0	3	16
Jun-30	343	262	4	40	140	34	23	54	1	0	3	39

Jun-06	Bioreactor #1				Bioreactor #2				Clarifiers				Filtered Effluent							
	T1 Cell 8a	T1 Cell 8b	T1 Cell 9a	T1 Cell 9b	T2 Cell 8a	T2 Cell 8b	T2 Cell 9a	T2 Cell 9b	R.A.S. Clarifier 1	Sludge Blanket 1	R.A.S. Clarifier 2	Sludge Blanket 2	Effluent Flow	Irr. Flow	Cl2 Analyzer	End of Contact Chlorine	Effluent Chlorine	Cl_2	SO_2	Turbidity
	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	%	Depth (feet)	%	Depth (feet)	ML / Day	(M^3/day)	(mg/L)	(mg/l)	(mg/l)	(Kg/day)	(Kg/day)	NTU
Min:	0.90	0.31	0.31	0.00	0.00	0.00	0.00	0.30	0.69	7.5	0.64	10.0	7.1	2	1.01	0.48	0.00	41	3	0.50
Max:	2.21	2.76	2.76	2.45	5.00	2.41	3.12	4.25	1.02	11.0	1.05	13.0	12.1	4254	2.12	1.16	0.30	87	27	2.17
Avg:	2.04	1.68	1.68	1.13	5.00	1.57	1.25	1.20	0.83	9.0	0.77	11.1	9.5	2802	1.57	0.88	0.01	66	15	1.06
Total:													284.5	84052				1982	452	
Jun-1	2.21	1.08	1.08	0.60	2.44	2.41	1.57	1.43	0.80	8.5	0.64	12.0	9.2	3060	1.57	1.05	0.00	59	23	1.93
Jun-2	2.04	1.18	1.18	0.63	2.28	2.17	1.09	0.41	0.79	8.0	0.65	11.0	9.0	3254	1.55	1.11	0.00	61	25	2.17
Jun-3	2.04	1.54	1.54	0.88	2.39	2.41	1.30	0.66	0.78	8.5	0.64	12.0	11.0	2	1.01	1.00	0.00	61	24	2.17
Jun-4	1.84	2.03	2.03	1.42	2.10	1.99	1.18	0.92	0.79	8.0	0.65	12.0	9.7	2382	1.65	1.02	0.00	70	24	1.69
Jun-5	1.65	1.99	1.99	1.43	1.99	1.92	1.65	1.37	0.80	8.5	0.65	12.0	9.2	2593	1.48	0.67	0.00	87	27	1.58
Jun-6	1.86	1.91	0.91	0.60	2.45	2.40	1.94	2.40	0.79	8.0	0.67	12.0	10.6	2594	1.56	0.94	0.00	41	20	1.66
Jun-7	1.82	1.47	1.47	1.18	1.88	1.52	1.03	1.00	0.76	7.5	0.67	10.0	9.0	2594	1.49	0.75	0.00	53	4	1.45
Jun-8	1.42	1.63	1.63	1.38	1.68	1.42	0.58	0.34	0.75	8.5	0.67	10.0	10.0	3278	1.57	1.16	0.00	59	16	1.42
Jun-9	1.44	1.79	1.79	1.37	1.87	1.82	1.00	0.54	0.75	8.5	0.68	10.0	12.1	1460	1.59	1.13	0.00	51	19	1.50
Jun-10	1.45	2.51	2.51	1.86	1.76	1.76	1.17	0.96	0.75	9.5	0.69	11.5	10.8	2354	1.54	1.03	0.00	75	21	1.21
Jun-11	1.36	2.08	2.08	1.75	1.58	1.55	1.36	1.00	0.76	7.5	0.74	10.5	10.5	2371	1.54	1.02	0.00	75	14	1.09
Jun-12	1.36	1.74	1.74	1.18	1.42	1.37	0.90	0.51	0.77	8.0	0.77	10.0	11.1	2371	1.56	0.99	0.00	68	20	1.11
Jun-13	1.21	2.10	2.10	2.03	1.46	1.43	0.84	0.71	0.77	8.0	0.75	10.0	10.9	2436	1.56	1.06	0.00	60	18	1.13
Jun-14	1.16	2.51	2.51	2.23	1.48	1.59	1.32	0.99	0.73	8.0	0.73	10.0	11.0	2134	1.55	1.05	0.00	60	13	0.91
Jun-15	1.42	1.98	1.98	2.31	1.67	1.70	2.46	2.42	0.70	8.0	0.66	10.0	10.8	2284	1.43	1.04	0.00	56	15	0.91
Jun-16	1.03	1.74	1.74	1.81	1.61	1.60	1.65	1.76	0.69	8.5	0.68	10.0	10.3	2284	1.54	0.92	0.00	53	17	0.91
Jun-17	1.19	1.56	1.56	0.98	1.49	1.54	1.38	1.39	0.86	10.5	0.66	11.5	10.7	2340	1.55	1.07	0.00	65	18	0.88
Jun-18	1.03	0.99	0.99	0.59	1.47	1.49	1.23	1.38	0.86	10.0	0.86	12.5	9.9	2348	1.55	1.06	0.00	62	15	0.84
Jun-19	0.94	1.00	1.00	0.62	1.19	1.19	1.26	1.29	0.87	9.5	0.91	12.0	9.6	2283	1.62	0.56	0.00	87	19	0.72
Jun-20	0.95	1.01	1.01	0.60	1.48	1.96	1.82	1.56	0.93	9.0	0.91	12.0	9.5	2839	1.55	1.16	0.00	50	12	0.73
Jun-21	1.00	0.31	0.31	0.75	1.63	2.03	1.75	1.57	0.90	9.0	0.88	11.0	8.3	3623	1.53	0.91	0.00	50	9	0.67
Jun-22	1.00	2.00	2.00	1.78	1.51	1.90	1.69	1.37	0.86	9.0	0.80	11.0	8.6	3185	1.61	0.80	0.00	69	12	0.55
Jun-23	0.98	1.98	1.98	1.78	1.47	1.56	1.43	1.32	0.87	9.0	0.81	10.5	8.4	3385	1.60	0.61	0.00	70	12	0.50
Jun-24	1.00	1.98	1.98	0.37	1.11	1.05	0.78	0.69	0.88	10.0	0.84	10.0	8.6	3058	1.60	0.55	0.00	58	10	0.50
Jun-25	1.00	1.97	1.97	0.00	1.00	0.94	0.75	0.46	0.90	11.0	0.86	11.0	8.6	3172	1.61	0.68	0.00	56	10	0.53
Jun-26	0.90	1.76	1.76	0.00	0.89	0.81	0.49	0.33	0.93	9.0	0.90	10.5	8.0	3764	1.50	0.52	0.00	76	12	0.54
Jun-27	1.40	1.61	1.61	0.00	0.16	0.16	0.12	1.35	0.94	11.0	0.81	13.0	7.6	4047	1.61	0.53	0.00	75	10	0.59
Jun-28	1.49	1.66	1.66	0.00	0.00	0.00	0.00	0.30	0.89	9.5	0.90	11.5	7.1	4049	2.12	0.74	0.30	77	3	0.63
Jun-29	1.46	1.65	1.65	1.46	1.48	1.45	1.13	1.46	0.91	11.0	0.91	11.0	7.1	4254	1.56	0.48	0.00	72	5	0.56
Jun-30	2.00	2.76	2.76	2.45	5.00	1.92	3.12	4.25	1.02	11.0	1.05	11.0	7.2	4254	2.02	0.73	0.00	86	5	0.67

Jun-06	Press											
	Press Temp.	RAS Pressed T-1	RAS Pressed T-2	Poly Added Thick.	Poly Added Press	Bins	Off Thickener	Off Press	Thickener Poly Conc.	Press Poly Conc.	Net Bin Weight	Gross Bin Weight
	°C	(M^3/day)	(M^3/day)	# of Bags	# of Bags	#	%	%	%	%	Kg	Kg
Min:	0	0	0	0	0	0	0	0	0	0	0	0
Max:	22	231	187	1	1	4	1.5	6.13	0.15	0.16	10068	0
Avg:	10.533	125.53	113.03	0.2	0.3	2.0	0.144667	0.77	0.02	0.021	964.77	0
Total:		3766	3391	6	9	59						
Jun-1	20	182	130.00	1	1	3	1.12	5.60	0.13	0.16	9070.00	0
Jun-2	20	101	155	0	0	4	0	0	0	0	0	0
Jun-3	20	77	79	0	0	0	0	0	0	0	0	0
Jun-4	20	0	0	0	0	0	0	0	0	0	0	0
Jun-5	20	200	161	1	1	4	0	0	0	0	0	0
Jun-6	20	172	150	0	0	3	0	0	0	0	0	0
Jun-7	22	226	187	0	0	3	0	0	0	0	0	0
Jun-8	22	200	150	0	0	3	0	0	0	0	0	0
Jun-9	20	128	0	0	0	0	0	0	0	0	0	0
Jun-10	18	0	0	0	0	0	0	0	0	0	0	0
Jun-11	17	125	125	1	1	0	0	0	0	0	0	0
Jun-12	20	175	150	0	0	3	0	0	0	0	0	0
Jun-13	22	175	161	0	0	2	0	0	0	0	0	0
Jun-14	22	150	152	1	1	2	0	0	0	0	0	0
Jun-15	19	110	157	0	0	2	0.85	5.71	0.11	0.16	0	0
Jun-16	14	171	106	0	1	4	0	0	0	0	0	0
Jun-17	0	0	0	0	0	0	0	0	0	0	0	0
Jun-18	0	0	0	0	0	0	0	0	0	0	0	0
Jun-19	0	150	153	0	0	2	0	0	0	0	0	0
Jun-20	0	135	170	1	1	3	0	0	0	0	10068	0
Jun-21	0	185	135	0	0	3	0	0	0	0	0	0
Jun-22	0	231	170	1	1	3	0.87	5.6	0.11	0.15	3805	0
Jun-23	0	0	0	0	0	0	0	0	0	0	0	0
Jun-24	0	125	125	0	0	0	0	0	0	0	0	0
Jun-25	0	0	0	0	0	0	0	0	0	0	0	0
Jun-26	0	150	180	0	0	3	0	0	0	0	0	0
Jun-27	0	100	100	0	0	2	0	0	0	0	0	0
Jun-28	0	70	170	0	0	2	0	0	0	0	0	0
Jun-29	0	229	175	0	1	4	1.5	6.13	0.15	0.16	0	0
Jun-30	0	199	150	0	1	4	0	0	0	0	0	0

Lift Station Hours

Jul-06	Wilson St.		Lee Ave.		Fairview		Marina St.		Airport		Lakeside N.		Lakeside S.		Alberni		
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3
Min:	0.1	0.1	5.1	5.0	0.5	0.5	0.1	0.1	0.3	0.3	0.4	0.4	1.3	1.3	2.5	2.2	2.3
Max:	0.5	0.5	5.9	6.3	1.2	1.2	0.2	0.4	0.7	0.7	2.2	3.2	2.7	2.8	4.0	3.4	4.6
Average:	0.2	0.2	5.5	5.5	0.7	0.7	0.2	0.2	0.5	0.5	1.7	2.0	1.9	2.0	2.8	2.4	2.6
Total:	5.3	4.9	170.0	169.0	22.9	22.9	5.1	5.2	15.7	15.8	53.3	62.6	58.0	61.4	87.6	75.8	79.5
Jul-1	0.1	0.1	5.1	5.0	1.0	0.9	0.2	0.2	0.5	0.5	2.1	2.4	2.3	2.4	2.5	2.2	2.3
Jul-2	0.1	0.1	5.5	5.2	0.5	0.5	0.2	0.1	0.3	0.3	1.9	2.5	2.4	2.8	2.7	2.5	2.5
Jul-3	0.1	0.1	5.7	5.4	0.5	0.5	0.1	0.2	0.3	0.3	2.1	2.5	2.0	2.2	2.6	2.3	4.6
Jul-4	0.2	0.2	5.6	5.5	0.6	0.6	0.1	0.1	0.5	0.5	2.2	2.6	2.1	2.0	2.8	2.4	2.3
Jul-5	0.1	0.1	5.3	5.3	0.7	0.7	0.2	0.2	0.4	0.4	2.0	2.9	2.1	2.1	2.6	2.3	2.3
Jul-6	0.2	0.1	5.3	5.0	0.7	0.7	0.2	0.2	0.6	0.6	2.2	2.5	1.8	1.9	2.8	2.4	2.5
Jul-7	0.2	0.1	5.3	6.3	0.8	0.7	0.2	0.2	0.6	0.6	2.0	3.2	1.5	2.5	4.0	3.4	3.3
Jul-8	0.5	0.5	5.5	5.5	0.7	0.7	0.2	0.2	0.5	0.5	2.0	2.6	1.4	1.5	3.2	2.8	2.9
Jul-9	0.5	0.5	5.4	5.3	0.7	0.6	0.2	0.2	0.5	0.5	2.0	2.3	1.3	1.3	3.0	2.6	2.7
Jul-10	0.2	0.1	5.5	5.3	0.6	0.6	0.1	0.1	0.4	0.4	2.0	2.4	1.3	1.5	2.8	2.4	2.5
Jul-11	0.1	0.1	5.5	5.3	0.7	0.7	0.1	0.1	0.4	0.4	2.1	2.2	1.5	1.3	2.9	2.5	2.6
Jul-12	0.1	0.1	5.2	5.2	0.8	0.8	0.1	0.1	0.4	0.4	1.4	1.8	1.3	1.5	2.9	2.5	2.5
Jul-13	0.1	0.1	5.3	5.4	1.2	1.2	0.2	0.2	0.5	0.5	2.1	2.2	2.0	2.0	2.8	2.3	2.4
Jul-14	0.1	0.1	5.3	5.3	1.2	1.2	0.1	0.2	0.6	0.6	1.7	2.0	2.1	2.1	2.7	2.3	2.4
Jul-15	0.1	0.1	5.4	5.4	0.9	0.9	0.2	0.2	0.6	0.6	1.8	2.0	2.0	2.3	2.8	2.4	2.5
Jul-16	0.1	0.1	5.5	5.4	0.6	0.6	0.2	0.2	0.5	0.5	1.8	2.2	2.3	2.2	2.9	2.5	2.6
Jul-17	0.1	0.1	5.7	5.5	0.8	0.8	0.2	0.1	0.4	0.4	1.7	2.0	2.0	2.3	2.7	2.5	2.5
Jul-18	0.1	0.1	5.8	5.9	0.9	0.9	0.1	0.2	0.5	0.5	2.0	2.2	2.0	1.8	2.7	2.4	2.5
Jul-19	0.1	0.1	5.5	5.6	0.7	0.8	0.2	0.2	0.6	0.6	1.8	2.0	1.4	1.6	2.7	2.3	2.4
Jul-20	0.1	0.1	5.5	5.4	0.7	0.7	0.2	0.1	0.6	0.6	1.9	2.0	1.5	1.5	2.7	2.4	2.3
Jul-21	0.1	0.1	5.4	5.5	0.7	0.7	0.1	0.1	0.7	0.7	1.8	2.0	1.6	1.6	2.7	2.4	2.5
Jul-22	0.2	0.2	5.7	5.7	0.6	0.6	0.2	0.1	0.5	0.5	2.0	2.4	2.5	2.7	2.7	2.5	2.3
Jul-23	0.2	0.2	5.9	5.6	0.7	0.7	0.1	0.1	0.4	0.4	2.0	2.2	2.6	2.8	2.8	2.4	2.5
Jul-24	0.4	0.3	5.6	5.8	0.6	0.7	0.2	0.2	0.5	0.5	2.0	2.0	2.5	2.8	2.7	2.3	2.4
Jul-25	0.3	0.3	5.8	5.7	0.9	1.0	0.1	0.1	0.7	0.7	2.1	2.1	2.7	2.6	2.9	2.4	2.4
Jul-26	0.1	0.1	5.5	5.5	0.8	0.8	0.2	0.2	0.4	0.4	1.7	2.3	2.1	2.0	2.8	2.3	2.4
Jul-27	0.1	0.1	5.4	5.4	0.7	0.8	0.2	0.4	0.6	0.6	1.1	1.1	1.5	1.6	2.9	2.4	2.5
Jul-28	0.1	0.1	5.4	5.3	0.7	0.7	0.2	0.1	0.6	0.6	0.5	0.4	1.5	1.7	2.8	2.4	2.5
Jul-29	0.4	0.4	5.4	5.3	0.6	0.6	0.2	0.2	0.5	0.6	0.5	0.4	1.5	1.6	2.9	2.5	2.5
Jul-30	0.1	0.1	5.5	5.5	0.6	0.6	0.1	0.2	0.5	0.5	0.4	0.7	1.7	1.6	2.9	2.4	2.5
Jul-31	0.1	0.1	5.5	5.5	0.7	0.6	0.2	0.2	0.6	0.6	0.4	0.5	1.5	1.6	2.7	2.4	2.4

Jul-06	General			Head Works / Primary Clarification / Fermenters											
	Natural Gas Totalizer	Ambient Temp min	Ambient Temp max.	Influent Flow	Bar Screen Cycles	Train #1 Prim sludge to Ferm.	Ferm #1 Sludge to Digester	Ferm #1 HRT	Ferm #1 SRT	Ferm #1 Blanket Level	Ferm #2 Blanket Level	Train #2 Prim sludge to Ferm.	Ferm #2 Sludge to Digester	Ferm #2 HRT	Ferm #2 SRT
	(M^3/day)	Temp (°C)	Temp (°C)	ML / Day		(M^3/day)	(M^3/day)	Hours	Days	(Feet down from top)	(Feet down from top)	(M^3/day)	(M^3/day)	Hours	Days
Min:		12	21	13.9	94	311	34	23	4			298	30	22	4
Max:	1	20	37	17.0	120	361	83	27	10	11	10	374	81	28	12
Average:	0	15	31	15.4	108	353	56	24	7	5	5	345	50	24	8
Total:	8	22.9		477.4	3358	10952	1732					10691	1536		
Jul-1		18.0	32.0	16.0	107	350	34	24	10	7	5	367	30	23	12
Jul-2		13.0	35.0	13.9	104	361	34	23	10	6	6	361	30	23	12
Jul-3		15.0	35.0	14.9	111	351	34	24	10	6	5	342	30	25	12
Jul-4		16.0	36.0	16.2	116	351	35	24	10	5	6	345	30	24	12
Jul-5	1	18.0	34.0	14.9	107	361	34	23	10	6	1	368	30	23	12
Jul-6	1	15.0	30.0	16.0	108	360	50	23	7		2	363	46	23	8
Jul-7	1	14.0	26.0	17.0	120	351	62	24	6			356	57	24	6
Jul-8		16.0	29.0	16.7	115	351	68	24	5	1	3	345	60	24	6
Jul-9		12.0	28.0	14.9	107	350	77	24	5	3	6	337	68	25	5
Jul-10		19.0	30.0	15.7	102	361	81	23	4	3	5	338	66	25	5
Jul-11	1	17.0	29.0	15.8	110	351	80	24	4	3	10	335	51	25	7
Jul-12		12.0	26.0	14.9	100	361	50	23	7	10	8	372	32	23	11
Jul-13		17.0	23.0	14.9	102	361	35	23	10	10	8	374	30	22	12
Jul-14		14.0	21.0	15.4	103	361	34	23	10	10		331	30	25	12
Jul-15		13.2	29.7	14.8	104	360	47	23	7			298	42	28	8
Jul-16	1	14.0	28.0	14.8	94	361	55	23	6			307	48	27	7
Jul-17		13.0	30.0	14.9	103	361	61	23	6			355	56	24	6
Jul-18		13.0	30.0	15.6	116	360	67	23	5			339	58	25	6
Jul-19		12.0	29.0	15.5	107	331	78	25	5		2	306	63	27	6
Jul-20	1	12.0	31.0	15.4	117	311	74	27	5	4		345	66	24	5
Jul-21		12.0	31.0	15.3	105	331	78	25	4	1		344	68	24	5
Jul-22		17.0	34.0	15.2	109	361	83	23	4	1		324	77	26	5
Jul-23		18.0	37.0	15.0	100	350	69	24	5	9	10	341	81	25	4
Jul-24	1	20.0	34.0	14.6	106	351	53	24	7	9	10	331	57	25	6
Jul-25		19.0	35.0	16.6	116	361	47	23	7	10	10	342	44	25	8
Jul-26		17.0	36.0	16.2	110	350	48	24	7	9	10	348	42	24	8
Jul-27	1	16.0	36.0	16.2	118	360	47	23	8	11	10	359	42	23	8
Jul-28		17.0	36.0	15.1	109	351	45	24	8	10	5	368	42	23	8
Jul-29		15.0	31.5	15.2	115	360	53	23	7	5	4	361	48	23	7
Jul-30		13.5	28.6	14.6	110	351	61	24	6	5	7	362	56	23	6
Jul-31		12.0	22.0	14.9	107	361	59	23	6	8	9	327	54	26	6

Jul-06	Digesters											
	Gas Prod.	Waste Gas Burned	Gas Pressure	Boiler Temp.	Boiler Pressure	Prim. Dig. HRT	Sec. Dig. HRT	Total Sludge to Dig.	Clarity of Supernate	Sec. Dig.	Sec. Dig. Blanket Depth	Sec. Dig. Supernate to plant
	(M^3/day)	(M^3/day)	" WC	°C	KPA	Days	Days	(M^3/day)	1,2,3	# of Rings	ft	(M^3/day)
Min:	355	34	4	40	140	34	23	64	1			-9
Max:	1018	926	8	86	180	83	27	225	3	2	12	160
Average:	592	486	6	60	159	56		143	1	1	6	68
Total:	18358	15078						4431				2114
Jul-1	408	34	4	50	150	34	24	64	1		7	64
Jul-2	643	71	6	52	150	34	23	92	1		6	64
Jul-3	580	523	7	56	151	34	24	92	1		8	36
Jul-4	394	745	7	77	160	35	24	115	1	2	7	36
Jul-5	453	101	5	55	150	34	23	115	1		7	15
Jul-6	511	450	8	55	160	50	23	154	1		6	15
Jul-7	667	371	5	80	165	62	24	120	1		10	38
Jul-8	581	355	4	55	150	68	24	128	2		9	120
Jul-9	579	540	6	55	155	77	24	145	2		6	128
Jul-10	1018	493	6	81	170	81	23	211	2	1	7	145
Jul-11	653	926	8	55	160	80	24	174	2	1	6	83
Jul-12	863	382	4	40	150	50	23	150	2	1	6	102
Jul-13	509	538	8	55	160	35	23	108	2	1	9	14
Jul-14	416	549	6	55	170	34	23	75	1		12	22
Jul-15	507	499	4	80	175	47	23	89	1		10	53
Jul-16	355	517	4	45	140	55	23	128	2		10	89
Jul-17	609	579	8	52	150	61	23	160	1		10	78
Jul-18	544	858	6	50	160	67	23	125	1		8	74
Jul-19	678	812	6	50	140	78	25	191	1		7	125
Jul-20	430	395	5	50	140	74	27	190	1		8	91
Jul-21	772	301	5	50	155	78	25	168	1		6	90
Jul-22	549	295	5	55	155	83	23	160	1	1		124
Jul-23	606	436	5	55	160	69	24	210	1	1		160
Jul-24	577	365	5	55	170	53	24	225	2	2		90
Jul-25	560	335	5	50	170	47	23	191	1	1		-5
Jul-26	526	544	7	55	170	48	24	150	3	2		-9
Jul-27	808	707	5	83	180	47	23	175	1			30
Jul-28	711	820	5	86	180	45	24	127	3		5	3
Jul-29	670	300	4	50	160	53	23	101	1		6	48
Jul-30	535	313	4	50	160	61	24	142	2	2	3	101
Jul-31	646	524	8	56	170	59	23	156	2	2	3	92

Jul-06	Bioreactor #1				Bioreactor #2				Secondary Clarifiers				Filtered Effluent							
	T1 Cell8a	T1 Cell 8	T1 Cell 8b	T1 Cell9a	T2 Cell 8a	T2 Cell 8b	T2 Cell 9a	T2 Cell 9b	R.A.S. Clarifier 1	Sludge Blanket 1	R.A.S. Clarifier 2	Sludge Blanket 2	Effluent Flow	Irr. Flow	Cl2 Analyzer	End of Contact Chlorine	Effluent Chlorine	Cl_2	SO_2	Turbidity
	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	%	Depth (feet)	%	Depth (feet)	ML / Day	(M^3/day)	(mg/L)	(mg/l)	(mg/l)	(Kg/day)	(Kg/day)	NTU
Min:	1.0	1.1	1.1	0.8	1.1	0.9	0.8	0.8	0.87	10.0	0.85	10.0	7.0	250	1.8	0.5		60		0.40
Max:	1.9	2.0	2.0	1.7	1.9	2.2	1.8	1.7	1.53	14.0	1.77	14.0	13.2	4752	2.5	1.4	0.5	117	17	1.19
Average:	1.4	1.8	1.8	1.4	1.5	1.7	1.4	1.0	1.06	11.6	1.14	12.0	9.8	3491	2.3	0.9	0.0	84	12	0.77
Total:													302.6	108225				2593	360	
Jul-1	1.5	2.0	2.0	1.6	1.5	1.5	1.8	1.6	0.87	10.5	0.85	13.0	8.3	3713	2.0	0.6		88	7	0.71
Jul-2	1.5	1.9	1.9	1.5	1.5	1.5	1.8	1.7	0.91	12.0	0.90	13.0	7.3	3465	2.2	0.6		87	7	0.76
Jul-3	1.4	1.7	1.7	1.3	1.5	1.4	1.8	1.6	0.92	12.0	0.96	13.0	7.4	3967	1.9	0.5		80	4	0.83
Jul-4	1.3	1.6	1.6	1.1	1.5	1.2	1.7	1.6	0.96	10.0	1.23	12.5	7.7	3955	2.3	1.0		64		0.92
Jul-5	1.4	1.6	1.6	1.2	1.5	1.8	1.4	1.2	1.02	10.5	0.99	12.0	7.0	3984	2.4	1.0	0.5	88	3	0.91
Jul-6	1.5	1.4	1.4	1.0	1.5	2.1	1.3	0.9	1.00	11.0	0.98	13.0	7.9	3038	2.5	0.7		92	8	0.85
Jul-7	1.5	1.7	1.7	1.4	1.4	2.0	1.5	1.0	1.06	11.0	1.02	12.0	9.4	2423	2.3	1.1		86	15	1.10
Jul-8	1.5	2.0	2.0	1.6	1.5	2.0	1.5	1.0	1.01	12.0	1.05	10.5	7.3	2218	2.2	0.8		86	8	0.75
Jul-9	1.3	1.8	1.8	1.5	1.5	1.7	1.5	1.0	1.03	13.0	1.03	11.0	7.6	2125	2.4	0.8		88	13	0.63
Jul-10	1.1	1.4	1.4	1.3	1.5	1.2	1.5	1.0	1.14	10.5	1.20	12.0	7.4	3313	2.2	1.1		88	14	0.59
Jul-11	1.5	1.9	1.9	1.5	1.5	1.9	1.5	1.0	1.13	11.0	1.19	14.0	11.1	3827	2.2	0.8		101	15	0.55
Jul-12	1.5	2.0	2.0	1.6	1.5	1.9	1.5	1.0	1.04	12.5	1.03	12.0	11.8	3431	2.4	0.8		96	12	0.45
Jul-13	1.5	2.0	2.0	1.6	1.5	1.9	1.5	1.0	1.01	12.0	1.01	12.0	11.8	3526	2.3	0.7		81	13	0.44
Jul-14	1.5	2.0	2.0	1.6	1.5	2.0	1.5	1.0	1.01	12.0	1.33	12.0	12.4	3234	2.4	0.9		93	12	0.40
Jul-15	1.9	2.0	2.0	1.7	1.9	2.0	1.5	1.0	0.97	11.0	1.42	12.0	12.1	2077	2.4	0.8		82	13	0.50
Jul-16	1.9	2.0	2.0	1.6	1.8	2.0	1.5	1.0	1.18	11.0	1.47	11.0	12.1	2792	2.4	0.7		74	12	0.52
Jul-17	1.9	1.9	1.9	1.5	1.8	2.0	1.5	1.0	1.23	11.0	1.44	10.0	11.0	3345	2.3	1.0		80	12	0.50
Jul-18	1.5	1.8	1.8	1.3	1.5	1.9	1.2	1.0	1.10	11.5	1.18	11.0	10.9	4106	2.3	1.1		75	11	0.55
Jul-19	1.4	1.7	1.7	1.3	1.5	1.8	1.4	1.0	1.53	11.5	1.14	10.0	10.6	3908	2.4	0.8		72	8	0.66
Jul-20	1.4	1.7	1.7	1.3	1.5	1.9	1.5	1.1	1.04	12.0	1.14	11.5	10.1	4476	2.4	1.1		75	12	0.58
Jul-21	1.4	1.9	1.9	1.4	1.5	2.0	1.5	1.0	1.00	13.0	1.12	13.0	10.2	4130	2.5	1.1		85	12	0.67
Jul-22	1.2	1.3	1.3	0.8	1.5	1.7	1.3	1.0	1.07	12.5	1.17	12.5	10.1	3945	2.3	1.1		69	11	0.68
Jul-23	1.7	1.4	1.4	0.8	1.5	2.2	1.5	1.0	1.24	11.0	1.77	11.0	13.2	250	2.3	1.1		76	17	0.77
Jul-24	1.1	1.2	1.2	0.8	1.5	1.5	1.3	1.0	1.15	11.0	1.38	12.0	9.5	3331	2.3	1.1		63	13	0.91
Jul-25	1.0	1.1	1.1	0.9	1.1	0.9	0.8	0.9	1.08	11.5	1.19	12.5	9.6	4012	2.5	1.4		60	16	1.19
Jul-26	1.4	1.8	1.8	1.4	1.4	1.4	1.0	0.8	1.02	14.0	1.11	11.0	9.7	4261	2.3	1.4		66	16	1.19
Jul-27	1.5	1.9	1.9	1.5	1.4	1.6	1.2	0.8	1.04	11.5	1.10	11.5	9.5	4478	2.2	0.9		83	16	1.16
Jul-28	1.5	2.0	2.0	1.6	1.4	1.6	1.2	0.8	1.07	12.0	1.01	12.0	8.9	4752	1.8	1.0		117	15	1.05
Jul-29	1.4	1.9	1.9	1.5	1.3	1.4	1.1	0.8	1.03	12.0	0.96	13.0	10.0	3948	2.4	0.7		100	14	0.92
Jul-30	1.4	1.9	1.9	1.5	1.4	1.3	1.1	0.8	1.05	12.0	1.00	13.5	12.0	3786	2.3	0.8		86	15	0.97
Jul-31	1.5	2.0	2.0	1.6	1.5	1.5	1.2	0.8	1.05	12.5	1.04	13.0	8.8	4409	2.5	0.7		112	16	1.05

Jul-06	Press											
	Press Temp.	RAS Pressed T-1	RAS Pressed T-2	Poly Added Thick.	Poly Added Press	Bins	Off Thickener	Off Press	Thickener Poly Conc.	Press Poly Conc.	Net Bin Weight	Gross Bin Weight
	°C	(M^3/day)	(M^3/day)	# of Bags	# of Bags	#	%	%	%	%	Kg	Kg
Min:												
Max:		230	200	1	1	4	1.08	6.13	0.14	0.17	9175	
Average:		118	82	0.2	0.2	1.7	0.04	0.21	0.004834	0.0059	305.83	
Total:		3529	2465	7	7	52						
Jul-1												
Jul-2		121										
Jul-3		60	55									
Jul-4		200	150			3						
Jul-5		200	100	1	1	3						
Jul-6		230	132	1	1	3	1.08	6.13	0.14	0.17	9175	
Jul-7		200				4						
Jul-8												
Jul-9		100	97									
Jul-10		188	135	1	1	3						
Jul-11		202										
Jul-12		150	100			3						
Jul-13		157	150	1	1	3	0.012206	0.0564	0.001714	0.002		
Jul-14		200	200			4						
Jul-15												
Jul-16		84	32									
Jul-17		150	151	1	1	3						
Jul-18												
Jul-19		156	150			2						
Jul-20		150	151	1	1	2		0.027	0.0016	0.002		
Jul-21			30			2						
Jul-22												
Jul-23		70	35									
Jul-24		150	125			3						
Jul-25		150	100			3						
Jul-26		172	120		1	3						
Jul-27		177	156	1		4	0.012206	0.0564	0.001714	0.002		
Jul-28		155	148			4						
Jul-29												
Jul-30		107	58									
Jul-31		150	150	1	1	3						

Lift Station Hours

Aug-06	Wilson St.		Lee Ave.		Fairview		Front St.		Airport		Lakeside N.		Lakeside S.		Alberni		
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3
Min:	0.1	0.1	5.0	3.6	0.6	0.6	0.1	0.1	0.4	0.4	0.3	0.3	1.0	0.9	2.1	2.3	2.4
Max:	0.5	0.5	7.4	5.8	1.9	1.9	0.2	0.5	0.9	0.9	0.9	1.0	1.9	1.9	2.4	2.7	2.9
Average:	0.2	0.2	5.6	5.2	0.8	0.8	0.2	0.2	0.6	0.6	0.5	0.6	1.5	1.5	2.2	2.5	2.7
Total:	5.4	5.9	173.6	160.0	25.8	25.1	5.7	6.1	19.8	19.8	16.9	17.7	47.1	47.7	69.0	78.2	82.3
Aug-1	0.1	0.1	5.3	5.6	0.7	0.7	0.2	0.2	0.6	0.6	0.5	0.4	1.4	1.5	2.3	2.4	2.4
Aug-2	0.1	0.1	5.3	5.5	0.8	0.8	0.2	0.2	0.7	0.7	0.5	0.5	1.5	1.6	2.1	2.4	2.5
Aug-3	0.5	0.5	5.5	5.2	1.0	0.7	0.2	0.1	0.8	0.8	0.5	0.4	1.4	1.4	2.2	2.5	2.6
Aug-4	0.2	0.2	5.4	5.4	0.8	0.9	0.1	0.2	0.7	0.7	0.4	0.4	1.4	1.3	2.2	2.5	2.6
Aug-5	0.2	0.2	5.5	5.4	0.9	0.7	0.2	0.2	0.7	0.7	0.4	0.5	1.4	1.4	2.2	2.6	2.7
Aug-6	0.2	0.1	5.6	5.5	0.8	0.7	0.2	0.2	0.8	0.7	0.5	0.4	1.5	1.5	2.2	2.6	2.8
Aug-7	0.2	0.1	5.8	5.8	0.6	0.6	0.2	0.2	0.8	0.8	0.6	0.4	1.5	1.5	2.3	2.6	2.7
Aug-8	0.1	0.1	5.7	5.7	0.7	0.7	0.2	0.2	0.5	0.5	0.4	0.6	1.3	1.4	2.1	2.5	2.6
Aug-9	0.1	0.1	7.4	3.6	0.9	0.8	0.2	0.3	0.5	0.5	0.6	0.5	1.4	1.5	2.3	2.6	2.6
Aug-10	0.1	0.1	5.6	5.5	0.8	0.7	0.2	0.2	0.6	0.6	0.5	0.5	1.5	1.5	2.4	2.5	2.6
Aug-11	0.1	0.1	5.9	5.1	0.9	1.0	0.2	0.2	0.8	0.8	0.7	0.5	1.5	1.5	2.3	2.7	2.8
Aug-12	0.1	0.1	5.6	5.3	0.9	0.8	0.2	0.2	0.7	0.7	0.5	0.7	1.5	1.4	2.3	2.7	2.7
Aug-13	0.1	0.1	5.5	5.3	0.8	0.9	0.2	0.2	0.4	0.4	0.6	0.5	1.4	1.6	2.3	2.7	2.8
Aug-14	0.4	0.5	5.7	5.3	1.6	1.5	0.2	0.2	0.6	0.6	0.4	0.6	1.5	1.5	2.2	2.5	2.6
Aug-15	0.3	0.2	5.6	5.4	1.9	1.9	0.1	0.1	0.8	0.8	0.6	0.5	1.5	1.6	2.1	2.5	2.5
Aug-16	0.2	0.1	5.6	5.1	0.8	0.8	0.2	0.2	0.8	0.8	0.5	0.8	1.7	1.6	2.1	2.5	2.6
Aug-17	0.1	0.2	5.7	5.2	0.8	0.7	0.2	0.2	0.9	0.9	0.6	0.9	1.7	1.8	2.2	2.5	2.6
Aug-18	0.1	0.1	6.1	5.1	0.9	0.8	0.2	0.2	0.6	0.6	0.7	0.6	1.8	1.7	2.1	2.5	2.6
Aug-19	0.2	0.2	5.6	5.1	0.7	0.8	0.2	0.2	0.5	0.5	0.4	0.3	1.8	1.9	2.2	2.6	2.8
Aug-20	0.5	0.5	5.8	5.1	0.8	0.7	0.1	0.2	0.6	0.6	0.3	0.3	1.9	1.9	2.3	2.6	2.8
Aug-21	0.1	0.1	5.7	5.0	0.6	0.6	0.2	0.1	0.7	0.7	0.3	0.3	1.8	1.8	2.2	2.6	2.7
Aug-22	0.1	0.1	5.4	5.0	0.8	0.8	0.1	0.1	0.5	0.5	0.4	0.3	1.6	1.7	2.2	2.4	2.6
Aug-23	0.4	0.5	5.3	5.0	0.8	0.8	0.2	0.1	0.7	0.7	0.3	0.3	1.5	1.7	2.1	2.5	2.6
Aug-24	0.1	0.1	5.5	5.0	0.8	0.8	0.2	0.2	0.6	0.6	0.6	0.6	1.6	1.5	2.2	2.3	2.5
Aug-25	0.1	0.1	5.3	5.2	0.8	0.8	0.2	0.2	0.4	0.4	0.7	0.9	1.5	1.7	2.3	2.5	2.7
Aug-26	0.1	0.4	5.5	5.0	0.7	0.7	0.2	0.2	0.6	0.6	0.9	0.7	1.6	1.6	2.3	2.6	2.9
Aug-27	0.1	0.2	5.7	5.0	0.6	0.6	0.2	0.2	0.5	0.5	0.6	0.9	1.7	1.7	2.4	2.6	2.9
Aug-28	0.1	0.1	5.4	5.0	0.6	0.6	0.1	0.2	0.5	0.5	0.8	0.6	1.4	1.6	2.3	2.6	2.7
Aug-29	0.1	0.1	5.5	5.0	0.7	0.7	0.2	0.1	0.7	0.7	0.7	0.9	1.6	1.4	2.3	2.5	2.8
Aug-30	0.1	0.2	5.0	5.0	0.6	0.7	0.2	0.3	0.6	0.7	0.7	0.9	1.2	1.0	2.2	2.3	2.6
Aug-31	0.2	0.3	5.1	4.6	0.7	0.8	0.2	0.5	0.6	0.6	0.7	1.0	1.0	0.9	2.1	2.3	2.4

Aug-06	General			Headworks Primaries Fermenters												
	Natural Gas Totalizer	Ambient Temp min	Ambient Temp max.	Influent Flow	Bar Screen Cycles	Train #1 Prim sludge to Ferm.	Ferm #1 Sludge to Digester	Ferm #1 HRT	Ferm #1 SRT	Ferm #1 Blanket Level	Ferm #2 Blanket Level	Train #2 Prim sludge to Ferm.	Ferm #2 Sludge to Digester	Ferm #2 HRT	Ferm #2 SRT
	(M^3/day)	Temp (°C)	Temp (°C)	ML / Day		(M^3/day)	(M^3/day)	Hours	Days	(Feet down from top)	(Feet down from top)	(M^3/day)	(M^3/day)	Hours	Days
Min:	0	7	20	14.5	103	320	42	23	4	0	0	304	39	23	4
Max:	2	17	33	16.3	146	370	92	26	8	11	12	373	80	28	9
Average:	0	11	28	15.3	118	354	60	24	6	6	6	353	54	24	7
Total:	7	19.6		475.1	3643	10988	1865					10930	1672		
Aug-1	1	13.0	20.0	15.5	114	361	56	23	6	8	4	349	51	24	7
Aug-2	1	11.0	21.0	15.0	108	361	56	23	6	4	2	365	51	23	7
Aug-3	0	11.0	29.0	15.3	117	351	62	24	6	2	0	346	55	24	6
Aug-4	0	12.0	26.0	15.1	117	361	92	23	4	0	0	358	80	23	4
Aug-5	0	12.0	28.0	15.5	121	370	73	23	5	6	7	362	71	23	5
Aug-6	0	10.0	30.0	15.2	117	370	56	23	6	7	12	354	58	24	6
Aug-7	0	12.0	29.0	15.6	122	361	51	23	7	10	8	362	49	23	7
Aug-8	2	13.0	33.0	15.3	126	361	43	23	8	8	10	348	41	24	9
Aug-9	0	14.0	31.0	15.8	119	360	42	23	8	10	9	372	39	23	9
Aug-10	0	13.0	29.0	15.6	121	361	44	23	8	9	11	366	41	23	8
Aug-11	0	17.0	26.0	16.2	122	361	45	23	8	11	9	304	42	28	8
Aug-12	0	14.2	22.1	16.3	109	351	45	24	8	10	8	365	42	23	8
Aug-13	0	9.0	26.0	15.2	124	350	44	24	8	9	9	332	42	25	8
Aug-14	0	10.0	29.0	15.3	146	360	45	23	8	9	9	307	42	27	8
Aug-15	1	11.0	32.0	15.3	120	360	45	23	8	9	5	307	42	27	8
Aug-16	0	10.0	29.0	15.4	117	361	49	23	7	5	2	369	46	23	8
Aug-17	0	10.0	30.0	15.3	110	351	55	24	6	2	5	373	52	23	7
Aug-18	0	9.0	31.0	15.2	113	331	61	25	6	3	7	351	52	24	7
Aug-19	0	9.0	32.0	15.5	117	360	62	23	6	4	8	373	47	23	7
Aug-20	1	8.0	31.0	14.5	110	361	60	23	6	5	9	350	45	24	8
Aug-21	0	10.0	31.0	14.9	110	370	58	23	6	6	8	338	45	25	8
Aug-22	0	10.0	29.0	15.1	118	361	56	23	6	8	10	366	45	23	8
Aug-23	1	10.0	30.0	15.2	119	361	56	23	6	10	10	371	45	23	8
Aug-24	0	11.0	29.0	16.0	116	350	53	24	7	10	0	366	42	23	8
Aug-25	0	10.0	27.0	15.6	130	320	64	26	5	0	0	353	56	24	6
Aug-26	0	11.0	27.0	15.3	111	330	78	25	5	0	0	327	72	26	5
Aug-27	0	10.0	28.0	15.1	122	351	79	24	4	0	0	353	72	24	5
Aug-28	0	9.0	27.0	14.8	114	340	79	25	4	0	0	340	72	25	5
Aug-29	0	11.0	33.0	15.7	123	331	83	25	4	0	2	373	76	23	5
Aug-30	0	13.0	26.0	14.7	107	351	88	24	4	2	3	365	78	23	4
Aug-31	0	7.0	23.0	14.6	103	360	87	23	4	5	4	365	78	23	4

Aug-06	Digesters									Bioreactor #1				Bioreactor #2			
	Gas Prod.	Waste Gas Burned	Prim. Dig. HRT	Sec. Dig. HRT	Total Sludge to Dig.	Clarity of Supernate	Sec. Dig.	Sec. Dig. Blanket Depth	Sec. Dig. Supernate to plant	T1 Cell 8a	T1 Cell 8b	T1 Cell 9a	T1 Cell 9b	T2 Cell 8a	T2 Cell 8b	T2 Cell 9a	T2 Cell 9b
	(M^3/day)	(M^3/day)	Days	Days	(M^3/day)	1,2,3	# of Rings	ft	(M^3/day)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)
Min:	369	158	42	23	86	0	0	0	29	1.3	1.1	1.1	0.6	1.3	1.1	0.8	0.4
Max:	1568	940	92	26	233	2	2	10	172	1.5	2.0	2.0	2.8	1.7	2.0	1.5	1.1
Average:	717	553	60	24	147	1	1	6	84	1.4	1.7	1.7	1.8	1.5	1.4	1.1	0.7
Total:	22215	17143			4563				2591								
Aug-1	969	775	56	23	172	2	1	3	70	1.5	1.9	1.9	1.5	1.5	1.8	1.3	0.9
Aug-2	874	495	56	23	150	2	0	6	42	1.5	2.0	2.0	1.6	1.5	1.7	1.2	0.8
Aug-3	607	855	62	24	138	1	0	6	75	1.5	2.0	2.0	1.6	1.5	1.8	1.3	0.9
Aug-4	609	518	92	23	172	1	1	6	96	1.4	1.9	1.9	1.5	1.4	1.4	1.1	0.8
Aug-5	553	403	73	23	144	2	2	6	172	1.4	1.9	1.9	1.5	1.4	1.3	1.1	0.8
Aug-6	522	290	56	23	159	2	2	6	144	1.4	1.9	1.9	1.5	1.4	1.4	1.2	0.8
Aug-7	516	575	51	23	100	2	2	8	71	1.4	1.4	1.9	1.5	1.4	1.3	1.1	0.8
Aug-8	1406	745	43	23	105	2	2	8	100	1.3	2.0	2.0	1.7	1.3	1.1	1.0	0.7
Aug-9	890	705	42	23	125	2	2	8	73	1.3	1.9	1.9	1.7	1.4	1.1	1.0	0.7
Aug-10	554	659	44	23	143	2	2	8	39	1.4	1.9	1.9	1.6	1.5	1.3	1.0	0.7
Aug-11	623	620	45	23	127	2	0	7	29	1.4	1.8	1.8	1.5	1.5	1.3	1.0	0.7
Aug-12	633	423	45	24	87	1	0	8	47	1.4	1.9	1.9	1.6	1.5	1.3	1.0	0.7
Aug-13	498	917	44	24	86	2	1	7	86	1.4	1.9	1.9	1.7	1.4	1.2	1.1	0.8
Aug-14	369	676	45	23	123	1	1	7	86	1.4	1.7	1.7	1.6	1.4	1.1	1.0	0.8
Aug-15	567	251	45	23	135	1	1	7	51	1.4	2.0	2.0	2.0	1.4	1.1	1.1	0.9
Aug-16	588	238	49	23	138	1	1	9	49	1.4	1.9	1.9	2.0	1.5	1.1	0.8	0.4
Aug-17	684	923	55	24	150	1	1	9	52	1.4	1.9	1.9	2.0	1.6	1.3	0.9	0.5
Aug-18	781	339	61	25	144	2	1	6	64	1.4	1.8	1.8	2.1	1.7	1.5	1.1	0.8
Aug-19	666	823	62	23	109	1	1	7	82	1.4	1.7	1.7	1.9	1.7	1.5	1.1	0.7
Aug-20	1568	386	60	23	105	1	1	8	109	1.3	1.5	1.5	1.7	1.7	1.3	1.0	0.6
Aug-21	528	875	58	23	146	1	1	8	105	1.4	1.5	1.5	1.8	1.7	1.3	1.0	0.7
Aug-22	787	394	56	23	158	1	1	10	60	1.4	1.6	1.6	2.1	1.7	1.4	1.1	0.7
Aug-23	848	765	56	23	144	1	1	10	55	1.5	1.5	1.5	2.1	1.7	1.4	1.1	0.7
Aug-24	961	940	53	24	105	1	1	8	58	1.5	1.3	1.3	2.1	1.7	1.7	1.2	0.8
Aug-25	572	158	64	26	233	0	0	5	85	1.5	1.5	1.5	2.8	1.7	2.0	1.5	1.1
Aug-26	626	163	78	25	150	2	0	5	70	1.5	1.2	1.2	2.1	1.7	1.5	1.1	0.7
Aug-27	807	212	79	24	151	2	0	5	150	1.5	1.1	1.1	2.2	1.6	1.3	1.0	0.6
Aug-28	480	417	79	25	202	1	0	4	151	1.5	1.1	1.1	2.2	1.6	1.3	1.0	0.6
Aug-29	666	709	83	25	217	1	0	4	102	1.4	1.2	1.2	0.6	1.5	1.1	0.9	0.6
Aug-30	732	436	88	24	224	1	0	0	112	1.5	1.4	1.4	1.2	1.7	1.4	1.1	0.7
Aug-31	731	458	87	23	223	2	0	2	108	1.5	1.5	1.5	1.4	1.7	1.7	1.4	0.9

Aug-06	Clarifiers				Effluent							
	R.A.S. Clarifier 1	Sludge Blanket 1	R.A.S. Clarifier 2	Sludge Blanket 2	Effluent Flow	Irr. Flow	Cl2 Analyzer	End of Contact Chlorine	Effluent Chlorine	Cl_2	SO_2	Turbidity
	%	Depth (feet)	%	Depth (feet)	ML / Day	(M^3/day)	(mg/L)	(mg/l)	(mg/l)	(Kg/day)	(Kg/day)	NTU
Min:	0.99	0.0	0.97	0.0	5.1	1997	2.00	0.59	0.00	78	10	0.46
Max:	1.15	13.0	1.22	14.0	9.1	4409	3.04	2.06	0.00	114	22	1.70
Average:	1.09	10.1	1.09	10.7	7.6	3359	2.33	0.99	0.00	97	16	0.80
Total:					236.6	104142				3008	506	
Aug-1	1.06	0.0	1.02	0.0	8.8	4409	3.04	0.60	0.00	113	18	1.08
Aug-2	1.03	11.5	1.00	13.0	9.1	3631	2.81	0.80	0.00	105	20	0.86
Aug-3	1.04	0.0	1.03	0.0	8.3	3588	2.40	0.87	0.00	106	19	0.88
Aug-4	1.02	10.5	1.07	11.5	8.7	3201	2.52	0.95	0.00	104	20	0.77
Aug-5	1.02	12.0	1.10	14.0	8.4	3201	2.42	0.75	0.00	114	22	0.76
Aug-6	1.04	12.0	1.14	13.0	8.5	3433	2.32	0.70	0.00	110	22	0.69
Aug-7	1.07	0.0	1.13	0.0	8.4	3751	2.29	0.68	0.00	96	13	0.60
Aug-8	1.09	11.0	1.19	11.0	8.4	3783	2.31	0.72	0.00	102	21	0.54
Aug-9	1.10	11.0	1.22	12.0	8.4	4050	2.36	0.70	0.00	105	15	0.54
Aug-10	1.09	10.5	1.18	12.5	7.8	3688	2.43	0.70	0.00	100	17	0.52
Aug-11	1.07	12.0	1.17	12.5	8.3	3133	2.35	0.69	0.00	103	19	0.46
Aug-12	1.05	12.0	1.14	12.0	8.8	2613	2.32	0.68	0.00	81	19	0.53
Aug-13	0.99	9.5	1.20	10.0	8.2	2739	2.00	0.71	0.00	107	19	0.62
Aug-14	1.07	9.5	1.21	12.5	8.1	2689	2.29	0.59	0.00	97	18	0.60
Aug-15	1.13	9.5	1.10	9.5	8.0	2641	2.25	0.94	0.00	81	17	0.62
Aug-16	1.14	12.0	1.02	11.5	7.9	2884	2.28	0.62	0.00	80	17	0.62
Aug-17	1.13	11.0	1.00	11.0	7.3	3483	2.07	0.79	0.00	98	17	0.67
Aug-18	1.14	11.0	1.00	12.0	7.4	3869	2.25	0.76	0.00	105	16	0.69
Aug-19	1.14	12.0	0.97	11.0	7.5	2791	2.23	0.81	0.00	106	17	0.67
Aug-20	1.14	13.0	0.99	12.0	7.1	3202	2.25	0.81	0.00	90	16	0.65
Aug-21	1.15	10.0	1.04	11.0	6.9	3434	2.25	0.82	0.00	88	14	0.73
Aug-22	1.14	10.5	1.07	11.0	6.3	3510	2.25	1.12	0.00	86	13	0.76
Aug-23	1.13	11.5	1.06	12.5	7.3	1997	2.19	1.05	0.00	101	14	0.79
Aug-24	1.13	12.0	1.06	12.0	7.1	2987	2.15	1.59	0.00	89	13	0.79
Aug-25	1.14	12.0	1.07	12.0	5.1	3930	2.38	1.60	0.00	95	10	0.93
Aug-26	1.11	11.0	1.07	13.0	6.1	3271	2.28	1.51	0.00	78	13	0.90
Aug-27	1.13	11.0	1.11	11.0	6.7	3098	2.18	1.21	0.00	95	14	0.99
Aug-28	1.14	11.0	1.13	13.0	6.3	3940	2.17	1.42	0.00	88	11	1.06
Aug-29	1.14	12.0	1.13	12.0	6.9	3154	2.57	2.06	0.00	87	14	1.25
Aug-30	1.10	12.0	1.04	12.0	6.7	4021	2.33	1.89	0.00	99	13	1.70
Aug-31	1.06	10.5	1.03	11.5	7.7	4021	2.39	1.42	0.00	99	15	1.40

Aug-06	Press												
	Press Temp.	RAS Pressed T-1	RAS Pressed T-2	Poly Added Thick.	Poly Added Press	Bins	Onto Thick.	Off Thickener	Off Press	Thickener Poly Conc.	Press Poly Conc.	Net Bin Weight	Gross Bin Weight
	oC	(M3/day)	(M3/day)	# of Bags	# of Bags	#	%	%	%	%	%	Kg	Kg
Min:	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Max:	0	157	158	1	1	4	7.10%	8.77%	11.32%	0.23%	0.23%	0	0
Average:	0	98	94	0.2	0.3	2.2	0.63%	0.90%	1.07%	0.02%	0.02%	0	0
Total:		2944	2814	6	10	65							
Aug-1	0	155	158	0	0	4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-2	0	156	93	1	1	4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-3	0	42	0	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-4	0	50	50	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-5	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-6	0	55	130	0	1	0		0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-7	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-8	0	100	100	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-9	0	157	153	0	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-10	0	130	126	1	0	4	1.90%	6.30%	10.80%	0.20%	0.23%	0.00	0.00
Aug-11	0	126	126	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-12	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-13	0	121	150	0	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-14	0	125	125	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-15	0	150	0	1	1	4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-16	0	127	129	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-17	0	139	131	0	0	3	1.22%	5.64%	9.93%	0.20%	0.17%	0.00	0.00
Aug-18	0	152	156	0	1	4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-19	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-20	0	100	102	1	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-21	0	128	132	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-22	0	126	122	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-23	0	125	129	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-24	0	125	100	1	1	3	1.50%	7.10%	11.32%	0.23%	0.19%	0.00	0.00
Aug-25	0	74	112	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-26	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-27	0	102	100	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-28	0	125	125	0	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-29	0	124	125	1	1	4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-30	0	130	140	0	0	4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Aug-31	0	130	156	1	1	4	1.20%	8.77%	11.57%	0.24%	0.20%	0.00	0.00

Lift Station Hours

Sep-06	Wilson St.		Lee Ave.		Fairview		Marina Way		Airport		Lakeside N.		Lakeside S.		Alberni		
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3
Min:	0.0	0.1	4.5	4.2	0.5	0.4	0.1	0.1	0.2	0.2	0.1	0.0	0.8	0.8	1.7	1.9	2.1
Max:	0.5	1.1	5.4	4.9	0.8	0.8	0.2	0.2	0.8	0.8	1.5	1.0	3.0	3.1	2.2	2.3	2.5
Average:	0.1	0.3	4.9	4.5	0.6	0.6	0.1	0.1	0.4	0.4	0.9	0.3	1.4	1.4	1.9	2.1	2.3
Total:	2.4	9.7	146.1	135.1	18.8	18.8	4.2	3.9	12.4	12.4	25.9	8.8	43.4	41.6	57.5	63.5	68.0
Sep-1	0.2	0.2	4.9	4.5	0.7	0.7	0.2	0.2	0.4	0.4	0.7	0.9	1.0	0.9	2.2	2.2	2.4
Sep-2	0.5	0.5	5.0	4.6	0.7	0.6	0.2	0.1	0.6	0.6	0.6	1.0	1.0	0.9	2.0	2.2	2.4
Sep-3	0.2	0.2	4.9	4.6	0.7	0.7	0.2	0.2	0.6	0.6	0.7	0.9	1.2	1.0	2.1	2.3	2.5
Sep-4	0.4	0.4	5.0	4.6	0.6	0.6	0.1	0.1	0.8	0.8	0.6	0.7	1.0	1.0	2.0	2.2	2.4
Sep-5	0.1	0.1	5.2	4.8	0.7	0.7	0.1	0.1	0.5	0.5	0.6	0.7	1.1	1.0	2.0	2.2	2.3
Sep-6	0.1	0.1	4.7	4.3	0.8	0.8	0.2	0.1	0.4	0.4	0.5	0.9	0.8	0.8	2.0	2.2	2.4
Sep-7	0.3	0.4	4.6	4.3	0.7	0.7	0.1	0.2	0.3	0.3	0.6	0.9	0.9	0.8	1.9	2.1	2.3
Sep-8	0.1	0.1	4.6	4.2	0.6	0.6	0.1	0.1	0.3	0.3	0.5	0.8	0.9	0.9	1.9	2.1	2.2
Sep-9	0.0	0.3	4.7	4.5	0.7	0.7	0.2	0.2	0.3	0.3	0.5	0.9	1.0	0.8	2.0	2.2	2.3
Sep-10	0.0	0.2	4.9	4.5	0.6	0.6	0.2	0.2	0.2	0.2	0.5	1.0	1.0	0.9	2.1	2.3	2.5
Sep-11	0.0	0.2	5.1	4.6	0.7	0.7	0.1	0.1	0.5	0.5	1.0	0.1	1.0	1.0	2.0	2.2	2.4
Sep-12	0.0	0.2	5.1	4.6	0.6	0.6	0.1	0.1	0.4	0.4	1.4	0.0	1.5	1.5	1.9	2.1	2.2
Sep-13	0.0	0.2	4.5	4.5	0.6	0.6	0.2	0.1	0.6	0.6	1.5	0.0	1.6	1.6	1.8	2.1	2.2
Sep-14	0.0	0.3	4.8	4.4	0.5	0.5	0.1	0.1	0.4	0.4	1.5	0.0	3.0	1.2	1.9	2.1	2.2
Sep-15	0.0	0.3	4.8	4.6	0.5	0.4	0.1	0.2	0.3	0.3	1.3	0.0	2.1	1.7	1.8	2.0	2.2
Sep-16	0.0	1.1	5.1	4.7	0.7	0.7	0.2	0.1	0.4	0.4	1.5	0.0	2.7	3.1	1.8	2.1	2.2
Sep-17	0.0	1.0	5.2	4.6	0.6	0.6	0.1	0.2	0.4	0.4	1.5	0.0	2.8	3.0	1.8	2.1	2.2
Sep-18	0.0	0.3	5.4	4.9	0.6	0.6	0.1	0.1	0.3	0.3	1.5	0.0	2.9	3.1	1.8	2.0	2.1
Sep-19	0.0	0.7	5.2	4.6	0.7	0.7	0.1	0.1	0.5	0.5	1.3	0.0	2.1	2.2	1.9	2.1	2.4
Sep-20	0.0	0.2	4.7	4.4	0.6	0.6	0.1	0.1	0.4	0.4	1.4	0.0	1.1	1.2	1.9	2.1	2.2
Sep-21	0.0	0.2	4.5	4.4	0.5	0.6	0.2	0.2	0.4	0.4	1.2	0.0	1.1	1.1	2.0	2.2	2.2
Sep-22	0.0	0.2	4.6	4.2	0.7	0.7	0.1	0.1	0.4	0.4	1.4	0.0	1.0	1.2	2.0	2.2	2.4
Sep-23	0.0	0.6	4.6	4.3	0.6	0.6	0.2	0.2	0.3	0.3	0.9	0.0	1.0	1.0	2.0	2.1	2.3
Sep-24	0.0	0.5	5.0	4.5	0.6	0.6	0.1	0.1	0.4	0.4	1.3	0.0	1.7	1.6	1.9	2.1	2.3
Sep-25	0.0	0.2	4.8	4.5	0.6	0.6	0.2	0.1	0.2	0.2	0.3	0.0	1.2	1.2	1.9	2.1	2.2
Sep-26	0.0	0.2	4.8	4.5	0.6	0.6	0.1	0.1	0.3	0.3	0.1	0.0	1.1	1.1	1.8	1.9	2.1
Sep-27	0.1	0.4	4.9	4.5	0.6	0.6	0.2	0.1	0.3	0.3	0.2	0.0	1.2	1.4	1.7	2.0	2.1
Sep-28	0.3	0.2	4.7	4.4	0.6	0.6	0.1	0.1	0.6	0.6	0.2	0.0	1.5	1.5	1.8	2.0	2.1
Sep-29	0.1	0.1	4.9	4.5	0.5	0.6	0.1	0.1	0.5	0.5	0.2	0.0	1.4	1.6	1.8	2.0	2.1
Sep-30	0.0	0.1	4.9	4.5	0.6	0.6	0.1	0.1	0.4	0.4	0.4	0.0	1.5	1.3	1.8	2.0	2.2

Sep-06	General			Headworks Primaries Fermenters												
	Natural Gas Totalizer	Ambient Temp min	Ambient Temp max.	Influent Flow	Bar Screen Cycles	Train #1 Prim sludge to Ferm.	Ferm #1 Sludge to Digester	Ferm #1 HRT	Ferm #1 SRT	Ferm #1 Blanket Level	Ferm #2 Blanket Level	Train #2 Prim sludge to Ferm.	Ferm #2 Sludge to Digester	Ferm #2 HRT	Ferm #2 SRT
	(M^3/day)	Temp (°C)	Temp (°C)	ML / Day		(M^3/day)	(M^3/day)	Hours	Days	(Feet down from top)	(Feet down from top)	(M^3/day)	(M^3/day)	Hours	Days
Min:	0	0	0	13.2	88	300	35	23	4	0	0	234	28	22	4
Max:	67	13	29	15.8	108	370	86	28	10	12	11	379	78	36	12
Average:	3	8	22	14.2	96	356	56	24	6	6	6	333	45	26	8
Total:	80	15.4		425.5	2889	10666	1691					9987	1362		
Sep-1	2	10.0	25.0	15.8	108	360	86	23	4	3	8	371	78	23	4
Sep-2	0	10.0	28.0	14.7	100	351	63	24	6	8	6	364	58	23	6
Sep-3	0	8.0	27.0	13.7	97	351	53	24	7	6	9	368	50	23	7
Sep-4	0	13.0	26.0	13.4	91	361	56	23	6	6	6	371	48	23	7
Sep-5	0	10.0	28.0	14.1	103	361	55	23	6	7	7	368	46	23	8
Sep-6	0	9.0	27.0	14.3	103	360	53	23	7	7	7	369	48	23	7
Sep-7	1	0.0	0.0	14.2	95	361	52	23	7	7	9	372	48	23	7
Sep-8	0	12.0	27.0	15.3	93	361	53	23	7	8	9	351	49	24	7
Sep-9	1	9.0	27.0	14.8	102	361	53	23	7	5	9	365	48	23	7
Sep-10	0	10.0	26.0	14.1	94	361	53	23	7	5	0	371	40	23	9
Sep-11	0	8.0	24.0	14.3	96	370	52	23	7	0	11	361	37	23	9
Sep-12	1	10.0	29.0	14.5	92	361	38	23	9	12	11	370	28	23	12
Sep-13	0	10.0	21.0	13.4	91	360	35	23	10	10	7	364	30	23	12
Sep-14	0	9.0	20.0	13.5	105	341	35	25	10	9	9	337	30	25	12
Sep-15	67	8.0	19.0	13.8	94	360	42	23	8	8	9	310	41	27	9
Sep-16	1	6.0	18.0	13.7	90	361	51	23	7	8	10	237	35	35	10
Sep-17	4	11.0	22.0	13.2	93	341	55	25	6	6	9	246	30	34	12
Sep-18	0	9.0	15.0	14.0	96	360	55	23	6	6	9	251	30	33	12
Sep-19	1	8.0	18.0	15.5	97	350	55	24	6	7	4	349	35	24	10
Sep-20	0	5.0	19.0	14.3	93	360	60	23	6	3	3	375	44	22	8
Sep-21	1	6.0	20.0	14.6	97	361	62	23	6	2	4	379	48	22	7
Sep-22	0	7.0	21.0	14.3	95	360	63	23	6	4	0	358	48	23	7
Sep-23	0	9.6	19.7	14.0	96	361	62	23	6	0	3	348	48	24	7
Sep-24	0	10.0	20.0	14.0	88	360	62	23	6	5	3	348	48	24	7
Sep-25	0	7.0	22.0	13.8	98	361	62	23	6	6	5	361	48	23	7
Sep-26	1	6.0	25.0	14.3	98	360	62	23	6	6	7	328	52	26	7
Sep-27	0	7.0	25.0	13.5	94	360	62	23	6	7	8	258	54	33	6
Sep-28	0	7.0	23.0	14.6	100	361	62	23	6	9	8	259	54	32	6
Sep-29	0	7.0	26.0	13.9	97	330	67	25	5	3	0	244	54	34	6
Sep-30	0	8.0	24.0	14.0	93	300	75	28	5	0	0	234	54	36	6

Sep-06	Digesters								
	Gas Prod.	Waste Gas Burned	Prim. Dig. HRT	Sec. Dig. HRT	Total Sludge to Dig.	Clarity of Supernate	Sec. Dig.	Sec. Dig. Blanket Depth	Sec. Dig. Supernate to plant
	(M^3/day)	(M^3/day)	Days	Days	(M^3/day)	1,2,3	# of Rings	ft	(M^3/day)
Min:	245	4	35	23	65	0	0	0	-4
Max:	993	815	86	28	211	3	3	9	164
Average:	677	321	56	24	134	1	0	5	69
Total:	20318	9618			4009				1999
Sep-1	620	368	86	23	164	2	2	0	107
Sep-2	497	195	63	24	208	1	1	2	164
Sep-3	460	491	53	24	103	2	1	3	34
Sep-4	472	815	56	23	104	1	3	4	103
Sep-5	625	212	55	23	166	3	2	0	104
Sep-6	953	241	53	23	148	2	2	0	36
Sep-7	830	492	52	23	165	2	1	2	64
Sep-8	993	345	53	23	139	2	0	4	35
Sep-9	812	369	53	23	101	1	0	6	63
Sep-10	735	271	53	23	127	3	1	4	101
Sep-11	801	484	52	23	90	1	0	4	59
Sep-12	749	274	38	23	116	1	0	4	90
Sep-13	609	502	35	23	65	1	0	7	27
Sep-14	512	642	35	25	95	1	0	7	65
Sep-15	536	265	42	23	170	0	0	9	35
Sep-16	499	50	51	23	86	1	0	7	-4
Sep-17	472	29	55	25	122	2	0	7	86
Sep-18	617	413	55	23	135	1	0	8	48
Sep-19	484	21	55	24	139	1	0	5	35
Sep-20	720	535	60	23	143	1	0	6	39
Sep-21	720	88	62	23	161	1	0	8	73
Sep-22	969	143	63	23	138	2	0	9	61
Sep-23	798	263	62	23	110	1	0	8	84
Sep-24	959	466	62	23	139	2	0	9	110
Sep-25	856	428	62	23	180	1	0	5	81
Sep-26	765	340	62	23	114	1	0	7	40
Sep-27	842	326	62	23	126	1	0	8	114
Sep-28	525	421	62	23	116	1	0	3	
Sep-29	643	125	67	25	211	1	0	5	116
Sep-30	245	4	75	28	129	1	0	4	31

Sep-06	Bioreactor #1				Bioreactor #2				Clarifiers				Effluent							
	T1 Cell 8a	T1 Cell 8b	T1 Cell 9a	T1 Cell9b	T2 Cell 8a	T2 Cell 8b	T2 Cell 9a	T2 Cell 9b	R.A.S. Clarifier 1	Sludge Blanket 1	R.A.S. Clarifier 2	Sludge Blanket 2	Effluent Flow	Irr. Flow	Cl2 Analyzer	End of Contact Chlorine	Effluent Chlorine	Cl_2	SO_2	Turbidity
	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	%	Depth (feet)	%	Depth (feet)	ML / Day	(M^3/day)	(mg/L)	(mg/l)	(mg/l)	(Kg/day)	(Kg/day)	NTU
Min:	1.50	1.04	1.04	0.69	1.61	1.30	1.00	0.56	0.80	7.5	0.72	7.5	6.1	1941	1.0	0.7	0.0	50	12	0.31
Max:	2.09	1.72	1.72	1.42	2.11	2.50	1.83	1.38	1.16	13.0	1.06	13.0	12.4	3800	2.7	1.5	0.0	119	23	1.25
Average:	1.70	1.42	1.42	1.13	1.68	1.75	1.24	0.75	0.99	10.8	0.88	10.7	10.4	2832	2.1	1.0	0.0	86	17	0.62
Total:													311.3	84967	62.6	30.5	0.0	2582	508	
Sep-1	1.50	1.50	1.50	1.30	1.70	1.78	1.29	0.82	1.07	10.0	1.03	10.0	6.7	3800	2.2	0.9	0.0	100	15	1.25
Sep-2	1.50	1.51	1.51	1.34	1.71	1.82	1.37	0.92	1.10	10.0	0.99	11.5	6.4	3171	2.5	1.3	0.0	102	12	0.88
Sep-3	1.50	1.50	1.50	1.31	1.70	1.78	1.39	0.94	1.09	13.0	0.98	12.0	6.1	2968	2.4	0.8	0.0	84	13	0.70
Sep-4	1.50	1.50	1.50	1.30	1.70	1.62	1.30	0.86	1.09	10.5	1.00	11.0	6.3	3224	2.4	0.8	0.0	77	12	0.67
Sep-5	1.50	1.50	1.50	1.29	1.61	1.30	1.12	0.71	1.11	9.5	1.04	10.0	6.7	3012	2.4	0.9	0.0	86	14	0.81
Sep-6	1.50	1.50	1.50	1.26	1.70	1.62	1.31	0.82	1.14	11.0	1.03	10.0	6.4	3725	2.4	1.1	0.0	98	13	0.88
Sep-7	1.50	1.50	1.50	1.24	1.66	1.56	1.28	0.79	1.10	10.0	1.01	11.0	11.4	2980	2.7	1.0	0.0	97	12	0.80
Sep-8	1.50	1.50	1.50	1.22	1.70	1.61	1.30	0.79	1.09	12.0	1.00	12.0	11.7	3052	2.6	1.0	0.0	95	15	0.97
Sep-9	1.50	1.50	1.50	1.20	1.70	1.52	1.28	0.75	1.09	12.0	0.98	12.0	12.4	2628	1.4	0.9	0.0	92	14	0.87
Sep-10	1.50	1.50	1.50	1.22	1.70	1.45	1.33	0.80	1.09	10.0	0.98	12.0	12.2	2473	1.0	0.9	0.0	84	21	0.81
Sep-11	1.50	1.50	1.50	1.18	1.68	1.46	1.24	0.73	1.16	11.0	1.06	11.0	11.5	2942	1.3	0.7	0.0	50	16	0.67
Sep-12	1.50	1.50	1.50	1.17	1.70	1.58	1.34	0.81	1.09	13.0	0.96	13.0	11.9	2654	1.3	0.7	0.0	92	15	0.66
Sep-13	1.50	1.50	1.50	1.19	1.70	1.59	1.36	0.82	1.08	11.5	0.96	12.0	11.2	2588	2.1	0.8	0.0	81	18	0.51
Sep-14	1.50	1.50	1.50	1.18	1.70	1.69	1.39	0.85	1.08	9.0	0.95	10.5	12.2	2305	2.1	0.7	0.0	80	17	0.44
Sep-15	1.83	1.50	1.50	1.16	1.70	1.78	1.42	0.87	1.04	10.5	0.95	10.5	11.8	2627	2.1	0.7	0.0	79	16	0.41
Sep-16	1.90	1.40	1.40	1.06	1.70	1.82	1.40	0.87	0.93	9.5	0.86	10.0	11.6	2562	2.1	0.7	0.0	79	17	0.36
Sep-17	2.09	1.72	1.72	1.42	2.11	2.50	1.83	1.38	0.95	12.0	0.80	12.0	11.5	2662	2.1	1.0	0.0	78	19	0.31
Sep-18	1.90	1.40	1.40	1.06	1.70	1.66	1.32	0.81	0.95	9.0	0.84	10.0	11.9	2650	2.1	1.0	0.0	83	18	0.36
Sep-19	1.90	1.20	1.20	0.81	1.70	1.83	1.31	0.81	0.96	9.0	0.82	8.5	11.7	2971	2.1	1.5	0.0	119	23	0.42
Sep-20	1.86	1.31	1.31	0.99	1.65	1.88	1.17	0.66	0.83	12.0	0.80	11.0	11.7	1941	2.2	1.0	0.0	62	15	0.42
Sep-21	1.85	1.35	1.35	1.04	1.63	1.82	1.06	0.57	0.80	13.0	0.72	11.5	11.1	2885	2.1	1.0	0.0	96	19	0.42
Sep-22	1.85	1.35	1.35	1.04	1.63	1.91	1.06	0.56	0.85	11.0	0.76	10.0	11.0	2678	2.1	1.3	0.0	92	20	0.39
Sep-23	1.85	1.35	1.35	1.04	1.63	1.84	1.06	0.57	0.85	12.5	0.75	11.0	10.9	2112	2.1	1.2	0.0	88	19	0.44
Sep-24	1.85	1.35	1.35	1.04	1.63	1.85	1.06	0.56	0.87	12.0	0.74	10.0	9.9	2953	2.0	1.3	0.0	89	18	0.40
Sep-25	1.85	1.35	1.35	1.01	1.63	1.76	1.06	0.57	0.88	13.0	0.75	11.0	10.5	2912	2.1	1.5	0.0	81	13	0.49
Sep-26	1.85	1.35	1.35	1.02	1.63	1.75	1.06	0.57	0.90	13.0	0.75	11.0	11.2	3064	2.1	1.5	0.0	87	20	0.55
Sep-27	1.85	1.35	1.35	1.03	1.63	1.74	1.00	0.56	0.89	11.0	0.75	10.0	10.3	3256	2.1	0.9	0.0	81	23	0.54
Sep-28	1.85	1.35	1.35	0.99	1.63	1.96	1.00	0.56	0.90	7.5	0.76	9.0	11.3	2639	2.1	0.9	0.0	85	21	0.60
Sep-29	1.85	1.35	1.35	1.01	1.63	1.98	1.00	0.56	0.85	7.5	0.75	9.0	10.5	3112	2.1	1.0	0.0	88	18	0.59
Sep-30	1.85	1.04	1.04	0.69	1.63	1.94	1.00	0.57	0.82	8.0	0.73	7.5	11.4	2421	2.1	1.5	0.0	77	22	1.00

Sep-06	Press												
	Press Temp.	RAS Pressed T-1	RAS Pressed T-2	Poly Added Thick.	Poly Added Press	Bins	Onto Thick.	Off Thickener	Off Press	Thickener Poly Conc.	Press Poly Conc.	Net Bin Weight	Gross Bin Weight
	°C	(M3/day)	(M3/day)	# of Bags	# of Bags	#	%	%	%	%	%	Kg	Kg
Min:	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Max:	0	177	176	1	1	4	8.77%	8.77%	11.57%	0.89%	0.24%	0.00	0.03
Average:	0	85.033	84.167	0.2	0.3	1.9	0.92%	0.92%	1.45%	0.05%	0.03%	0.00	0.00
Total:		2551	2525	5	8	56							
Sep-1	0	150	150	0	0	4	1.20%	8.77%	11.57%	0.05%	0.20%	0.00	0.00
Sep-2	0	116	176	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-3	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-4	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-5	0	125	152	1	1	4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-6	0	177	133	0	0	4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-7	0	120	114	1	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-8	0	120	116	0	0	4	0.64%	6.17%	11.19%	0.35%	0.24%	0.00	0.00
Sep-9	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.02
Sep-10	0	111	108	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-11	0	166	125	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-12	0	0	0	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-13	0	0	0	0	1	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-14	0	150	126	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-15	0	125	89	0	0	4	0.86%	6.46%	10.42%	0.89%	0.23%	0.00	0.00
Sep-16	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.02
Sep-17	0	105	105	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-18	0	150	125	1	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-19	0	125	125	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-20	0	150	150	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-21	0	106	150	0	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-22	0	102	110	0	0	3	0.96%	6.29%	10.25%	0.12%	0.20%	0.00	0.00
Sep-23	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.02
Sep-24	0	101	101	1	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-25	0	100	51	0	1	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-26	0	0	0	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-27	0	100	123	0	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-28	0	0	21	1	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-29	0	77	100	0	0	4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00
Sep-30	0	75	75	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.03

Lift Station Hours

Oct-06	Wilson St.		Lee Ave.		Fairview		Marina Way		Airport		Lakeside N.		Lakeside S.		Alberni		
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3
Min:	0.1	0.1	0.1	4.2	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.6	1.6	1.8	2.0
Max:	0.4	1.0	5.0	4.8	4.0	4.3	0.5	0.6	0.7	0.7	0.4	0.0	1.9	1.7	2.0	2.3	2.4
Average:	0.1	0.2	4.6	4.5	0.7	0.7	0.1	0.1	0.4	0.4	0.2	0.0	0.7	1.0	1.8	2.1	2.2
Total:	4.0	4.9	141.4	139.6	22.4	22.3	4.4	4.4	11.4	11.4	7.7	0.0	23.1	30.6	56.4	63.6	67.4
Oct-1	0.1	0.2	4.8	4.7	0.6	0.6	0.1	0.2	0.4	0.4	0.3	0.0	1.9	1.7	1.8	2.1	2.2
Oct-2	0.1	0.1	5.0	4.5	0.7	0.6	0.2	0.2	0.7	0.7	0.3	0.0	0.8	0.6	1.8	2.0	2.1
Oct-3	0.2	0.1	4.8	4.5	0.6	0.6	0.2	0.1	0.5	0.5	0.1	0.0	0.7	0.7	1.8	2.0	2.1
Oct-4	0.1	0.1	4.8	4.5	0.6	0.6	0.2	0.1	0.5	0.5	0.2	0.0	1.3	1.2	1.8	2.0	2.1
Oct-5	0.1	0.1	4.6	4.2	0.5	0.5	0.1	0.1	0.4	0.4	0.4	0.0	0.7	0.9	1.8	2.0	2.2
Oct-6	0.1	0.1	4.6	4.4	0.6	0.6	0.1	0.1	0.4	0.4	0.1	0.0	0.9	0.9	1.8	2.1	2.1
Oct-7	0.1	0.1	4.7	4.3	0.6	0.6	0.1	0.1	0.3	0.3	0.3	0.0	0.9	0.7	1.9	2.1	2.3
Oct-8	0.1	0.2	4.6	4.7	0.6	0.5	0.1	0.2	0.3	0.3	0.2	0.0	0.7	0.9	2.0	2.3	2.4
Oct-9	0.1	0.1	4.7	4.8	0.6	0.6	0.1	0.1	0.2	0.2	0.3	0.0	0.8	0.9	1.9	2.2	2.3
Oct-10	0.1	0.1	4.8	4.8	0.5	0.5	0.1	0.1	0.2	0.2	0.3	0.0	1.0	0.9	1.8	2.1	2.2
Oct-11	0.3	0.2	4.5	4.5	0.7	0.7	0.1	0.1	0.3	0.3	0.3	0.0	0.7	0.9	1.8	2.0	2.2
Oct-12	0.1	0.1	4.5	4.4	0.6	0.6	0.1	0.1	0.5	0.5	0.2	0.0	0.8	0.7	2.0	2.1	2.3
Oct-13	0.2	0.2	4.7	4.3	0.6	0.6	0.1	0.1	0.5	0.5	0.3	0.0	1.0	0.9	1.9	2.1	2.2
Oct-14	0.2	0.2	4.6	4.3	0.6	0.6	0.1	0.1	0.5	0.5	0.3	0.0	1.2	1.1	1.9	2.2	2.2
Oct-15	0.2	0.2	4.8	4.5	0.7	0.7	0.1	0.1	0.4	0.4	0.3	0.0	1.1	1.1	1.9	2.1	2.2
Oct-16	0.1	0.1	5.0	4.7	0.8	0.8	0.1	0.2	0.3	0.3	0.1	0.0	1.1	1.2	1.9	2.1	2.3
Oct-17	0.1	0.1	4.8	4.6	0.6	0.6	0.1	0.1	0.5	0.5	0.4	0.0	1.1	1.1	1.8	2.1	2.2
Oct-18	0.1	0.1	4.7	4.4	0.6	0.6	0.2	0.1	0.4	0.4	0.2	0.0	1.1	1.0	1.8	1.9	2.1
Oct-19	0.1	0.1	4.7	4.4	0.5	0.5	0.1	0.1	0.4	0.4	0.4	0.0	1.0	1.1	1.8	2.0	2.2
Oct-20	0.2	1.0	0.1	4.7	4.0	4.3	0.4	0.2	0.4	0.4	0.2	0.0	0.9	1.1	1.8	2.1	2.2
Oct-21	0.1	0.1	4.6	4.4	0.7	0.6	0.5	0.6	0.3	0.3	0.3	0.0	0.7	0.7	1.8	2.1	2.1
Oct-22	0.1	0.1	4.8	4.8	0.6	0.6	0.2	0.2	0.4	0.4	0.2	0.0	0.6	0.6	1.8	2.1	2.3
Oct-23	0.1	0.1	4.8	4.6	0.8	0.7	0.2	0.2	0.3	0.3	0.3	0.0	0.7	0.7	1.9	2.1	2.2
Oct-24	0.1	0.1	4.8	4.8	0.5	0.5	0.1	0.1	0.4	0.4	0.2	0.0	0.6	0.6	1.8	2.0	2.2
Oct-25	0.4	0.4	4.6	4.4	0.7	0.7	0.1	0.1	0.4	0.4	0.2	0.0	0.7	0.6	1.7	1.9	2.0
Oct-26	0.1	0.1	4.7	4.3	0.7	0.7	0.1	0.1	0.4	0.4	0.2	0.0	0.1	1.3	1.6	1.8	2.0
Oct-27	0.1	0.2	4.6	4.3	0.5	0.5	0.1	0.1	0.4	0.4	0.2	0.0	0.0	1.2	1.8	1.9	2.1
Oct-28	0.1	0.1	4.5	4.3	0.5	0.5	0.1	0.2	0.2	0.2	0.2	0.0	0.0	1.2	1.7	2.0	2.1
Oct-29	0.1	0.1	4.6	4.4	0.6	0.6	0.1	0.1	0.2	0.2	0.3	0.0	0.0	1.3	1.8	2.0	2.1
Oct-30	0.1	0.1	5.0	4.7	0.7	0.7	0.1	0.1	0.1	0.1	0.3	0.0	0.0	1.5	1.8	2.1	2.2
Oct-31	0.2	0.2	4.6	4.4	0.5	0.5	0.1	0.1	0.2	0.2	0.1	0.0	0.0	1.3	1.7	2.0	2.0

Oct-06	General			Headworks Primaries Fermenters											
	Natural Gas Totalizer	Ambient Temp min	Ambient Temp max.	Influent Flow	Bar Screen Cycles	Train #1 Prim sludge to Ferm.	Ferm #1 Sludge to Digester	Ferm #1 HRT	Ferm #1 SRT	Ferm #1 Blanket Level	Ferm #2 Blanket Level	Train #2 Prim sludge to Ferm.	Ferm #2 Sludge to Digester	Ferm #2 HRT	Ferm #2 SRT
	(M^3/day)	Temp (°C)	Temp (°C)	ML / Day		(M^3/day)	(M^3/day)	Hours	Days	(Feet down from top)	(Feet down from top)	(M^3/day)	(M^3/day)	Hours	Days
Min:	0	-9	4	12.4	83	311	25	23	4	0	0	205	24	22	4
Max:	449	10	21	14.6	110	371	87	27	14	11	10	390	84	41	15
Average:	124	4	15	13.5	96	353	56	24	7	5	3	317	52	28	7
Total:	3853	9.3		417.5	2991	10938	1721					9835	1609		
Oct-1	1	10.0	20.0	14.2	99	331	71	25	5	0	0	206	66	41	5
Oct-2	0	8.0	18.0	13.2	88	360	84	23	4	0	1	210	72	40	5
Oct-3	29	6.0	16.0	14.4	101	361	87	23	4	0	0	205	72	41	5
Oct-4	4	5.0	15.0	14.0	98	350	87	24	4	2	3	254	72	33	5
Oct-5	6	6.0	18.0	14.2	95	360	86	23	4	8	8	256	72	33	5
Oct-6	3	9.0	20.0	14.0	96	341	64	25	5	9	7	241	24	35	15
Oct-7	8	2.0	16.0	14.5	93	311	54	27	7	11	6	248	48	34	7
Oct-8	7	5.0	18.0	14.6	102	350	54	24	7	10	10	247	48	34	7
Oct-9	18	3.0	21.0	13.1	95	351	47	24	7	11	10	252	42	33	8
Oct-10	2	3.0	18.0	14.5	110	361	40	23	9	10	10	246	36	34	10
Oct-11	40	4.0	17.0	13.5	97	350	40	24	9	10	10	275	36	31	10
Oct-12	15	5.0	16.0	13.6	94	320	40	26	9	9	10	350	36	24	10
Oct-13	292	6.0	13.0	13.8	96	351	25	24	14	10	4	271	34	31	10
Oct-14	316	8.0	15.0	12.7	90	331	33	25	11	9	3	390	38	22	9
Oct-15	290	9.0	14.0	13.8	83	360	34	23	10	9	0	357	41	24	9
Oct-16	74	9.0	14.0	12.5	89	361	34	23	10	9	0	347	49	24	7
Oct-17	13	4.0	13.0	13.6	97	351	33	24	11	10	0	384	48	22	7
Oct-18	16	3.0	15.0	13.1	88	341	34	25	10	9	0	382	53	22	7
Oct-19	201	5.0	14.0	13.3	96	360	34	23	10	6	0	346	41	24	9
Oct-20	86	6.3	16.4	13.5	99	360	40	23	9	3	0	389	40	22	9
Oct-21	449	-0.5	12.4	13.0	95	370	50	23	7	0	0	364	45	23	8
Oct-22	444	-1.0	14.0	12.4	97	371	51	23	7	0	0	332	46	25	8
Oct-23	343	-1.0	12.0	13.4	105	361	51	23	7	0	0	356	45	24	8
Oct-24	58	0.0	14.0	13.4	101	371	56	23	6	0	0	329	53	26	7
Oct-25	24	3.0	14.0	13.0	97	351	69	24	5	0	0	351	61	24	6
Oct-26	64	2.0	12.0	13.4	99	350	67	24	5	0	0	362	60	23	6
Oct-27	147	6.0	10.0	13.2	95	361	68	23	5	0	0	389	60	22	6
Oct-28	136	6.0	13.0	12.9	95	360	72	23	5	0	0	370	66	23	5
Oct-29	178	5.0	12.0	13.0	100	360	82	23	4	0	0	385	72	22	5
Oct-30	207	-3.0	6.0	12.7	101	371	81	23	4	0	7	385	84	22	4
Oct-31	382	-9.0	4.0	13.1	100	351	54	24	6	9	7	356	50	24	7

Oct-06	Digesters								
	Gas Prod.	Waste Gas Burned	Prim. Dig. HRT	Sec. Dig. HRT	Total Sludge to Dig.	Clarity of Supernate	Sec. Dig.	Sec. Dig. Blanket Depth	Sec. Dig. Supernate to plant
	(M^3/day)	(M^3/day)	Days	Days	(M^3/day)	1,2,3	# of Rings	ft	(M^3/day)
Min:	9	0	25	23	71	0	0	0	-39
Max:	817	355	87	27	224	3	3	4	165
Average:	425	84	56	24	143	2	1	0	82
Total:	13170	2603			4441				2551
Oct-1	296	1	71	25	137	1	0	2	129
Oct-2	292	2	84	23	214	2	2	1	137
Oct-3	625	92	87	23	217	2	2	4	98
Oct-4	492	66	87	24	224	2	2	0	101
Oct-5	786	165	86	23	198	2	2	0	94
Oct-6	573	93	64	25	160	3	1	0	128
Oct-7	256	0	54	27	102	3	2	0	16
Oct-8	674	13	54	24	102	2	3	0	102
Oct-9	593	13	47	24	197	3	1	0	102
Oct-10	148	0	40	23	76	3	1	0	-19
Oct-11	150	0	40	24	191	2	1	0	76
Oct-12	120	0	40	26	126	2	1	0	-39
Oct-13	210	66	25	24	80	1	0	0	36
Oct-14	283	249	33	25	71	1	0	0	38
Oct-15	11	230	34	23	75	2	1	0	71
Oct-16	9	230	34	23	133	2	1	0	75
Oct-17	271	64	33	24	81	2	0	0	33
Oct-18	817	3	34	25	101	0	3	0	138
Oct-19	549	83	34	23	150	3	1	0	130
Oct-20	593	103	40	23	134	0	0	0	36
Oct-21	268	61	50	23	95	3	0	0	36
Oct-22	196	81	51	23	97	3	3	0	95
Oct-23	748	90	51	23	131	3	3	0	97
Oct-24	550	82	56	23	144	3	1	0	86
Oct-25	407	127	69	24	189	3	1	0	99
Oct-26	438	86	67	24	177	3	1	0	69
Oct-27	370	82	68	23	178	3	1	0	77
Oct-28	579	90	72	23	139	3	1	0	78
Oct-29	799	355	82	23	204	3	2	0	139
Oct-30	515	56	81	23	190	3	3	0	129
Oct-31	552	20	54	24	129	3	0	0	165

Oct-06	Bioreactor #1				Bioreactor #2				Clarifiers				Effluent							
	T1 Cell 8a	T1 Cell 8b	T1 Cell 9a	T1 Cell9b	T2 Cell 8a	T2 Cell 8b	T2 Cell 9a	T2 Cell 9b	R.A.S. Clarifier 1	Sludge Blanket 1	R.A.S. Clarifier 2	Sludge Blanket 2	Effluent Flow	Irr. Flow	Cl2 Analyzer	End of Contact Chlorine	Effluent Chlorine	Cl_2	SO_2	Turbidity
	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	%	Depth (feet)	%	Depth (feet)	ML / Day	(M^3/day)	(mg/L)	(mg/l)	(mg/l)	(Kg/day)	(Kg/day)	NTU
Min:	1.7	0.2	0.2	0.6	1.6	1.5	1.0	0.2	0.72	5.5	0.62	5.0	7.9	0	1.8	0.6	0.0	68	7	0.31
Max:	2.0	1.5	1.5	1.3	2.0	2.0	1.5	0.9	0.90	10.0	0.85	10.0	12.2	3042	3.9	2.6	0.0	91	30	0.81
Average:	1.9	1.3	1.3	1.0	1.8	1.8	1.3	0.8	0.79	8.0	0.71	7.2	10.4	1864	2.2	1.2	0.0	80	23	0.52
Total:									24.38	248.0	21.98	222.5	321.1	57786				2490	720	16.09
Oct-1	1.9	1.0	1.0	0.6	1.6	1.9	1.0	0.6	0.84	9.0	0.74	9.0	11.7	2435	2.1	1.5	0.0	78	20	0.63
Oct-2	1.9	1.0	1.0	0.7	1.6	1.8	1.0	0.6	0.85	8.0	0.73	7.5	10.7	2925	2.1	1.4	0.0	80	24	0.72
Oct-3	1.9	1.0	1.0	0.6	1.7	2.0	1.2	0.7	0.83	8.0	0.71	7.0	11.2	2792	2.5	2.6	0.0	80	24	0.75
Oct-4	1.9	1.0	1.0	0.6	1.8	2.0	1.3	0.7	0.78	10.0	0.70	8.5	11.8	2390	2.1	2.2	0.0	81	28	0.76
Oct-5	1.9	1.5	1.5	1.1	1.8	2.0	1.4	0.8	0.75	10.0	0.68	7.5	11.0	2647	1.9	1.5	0.0	82	26	0.81
Oct-6	1.9	1.5	1.5	1.2	1.8	2.0	1.4	0.7	0.72	9.0	0.64	8.0	10.7	3042	1.8	1.0	0.0	78	25	0.76
Oct-7	1.9	1.5	1.5	1.2	1.8	2.0	1.4	0.6	0.73	9.0	0.62	9.0	11.0	2682	2.0	1.0	0.0	75	30	0.76
Oct-8	1.9	1.5	1.5	1.2	1.8	2.0	1.4	0.6	0.74	8.0	0.62	10.0	11.2	2803	2.0	0.8	0.0	73	23	0.67
Oct-9	1.9	1.5	1.5	1.2	1.8	1.8	1.3	0.7	0.75	8.5	0.63	7.5	10.6	2618	1.9	1.1	0.0	78	26	0.71
Oct-10	1.9	1.4	1.4	1.0	1.8	1.8	1.4	0.8	0.76	8.5	0.64	7.5	10.7	2792	2.4	2.4	0.0	80	26	0.79
Oct-11	2.0	1.4	1.4	1.3	2.0	2.0	1.4	0.8	0.78	6.0	0.64	6.0	10.6	2333	1.8	1.2	0.0	79	25	0.72
Oct-12	2.0	1.5	1.5	1.3	2.0	2.0	1.4	0.8	0.79	6.0	0.68	5.0	10.6	2530	2.0	1.1	0.0	79	25	0.61
Oct-13	2.0	1.4	1.4	1.2	2.0	2.0	1.5	0.9	0.81	8.0	0.68	9.0	8.6	2510	3.9	0.9	0.0	84	20	0.40
Oct-14	2.0	1.4	1.4	1.2	2.0	2.0	1.5	0.9	0.76	9.0	0.71	8.0	8.5	2174	2.3	1.1	0.0	78	20	0.46
Oct-15	2.0	1.4	1.4	1.1	2.0	2.0	1.5	0.9	0.77	10.0	0.70	8.0	9.3	2529	2.0	1.1	0.0	77	19	0.47
Oct-16	2.0	1.4	1.4	1.2	2.0	1.9	1.5	0.9	0.76	8.0	0.71	5.0	8.6	2521	2.4	0.6	0.0	79	21	0.48
Oct-17	1.8	1.2	1.2	0.9	1.8	1.7	1.2	0.8	0.77	6.0	0.70	6.0	9.1	2352	2.2	0.7	0.0	83	22	0.53
Oct-18	1.8	1.2	1.2	0.9	1.8	1.6	1.2	0.8	0.75	8.0	0.68	8.0	8.7	2459	2.3	1.2	0.0	83	20	0.43
Oct-19	1.8	1.2	1.2	0.9	1.8	1.6	1.2	0.8	0.73	8.0	0.67	7.0	8.5	2613	2.2	1.1	0.0	84	7	0.49
Oct-20	1.8	0.2	0.2	0.9	1.8	1.5	1.2	0.8	0.74	9.0	0.68	8.0	11.0	493	2.2	1.0	0.0	84	8	0.46
Oct-21	1.8	1.2	1.2	0.9	1.8	1.5	1.2	0.8	0.73	9.0	0.68	8.0	8.9	1970	2.6	1.2	0.0	84	21	0.36
Oct-22	1.8	1.2	1.2	0.9	1.8	1.5	1.2	0.8	0.72	8.0	0.68	6.0	7.9	2567	2.8	1.5	0.0	77	19	0.31
Oct-23	1.8	1.2	1.2	0.9	1.8	1.5	1.2	0.8	0.74	8.0	0.67	6.0	8.5	2827	2.1	0.9	0.0	89	19	0.36
Oct-24	1.9	1.3	1.3	1.0	1.9	1.6	1.3	0.9	0.72	8.0	0.62	6.0	11.1	391	2.1	1.0	0.0	83	27	0.39
Oct-25	1.9	1.3	1.3	1.0	1.9	1.6	1.3	0.9	0.86	8.0	0.80	5.0	11.2	391	2.1	1.0	0.0	75	26	0.33
Oct-26	1.9	1.3	1.3	1.0	1.9	1.6	1.3	0.9	0.89	9.0	0.82	6.0	11.4	0	2.2	0.7	0.0	68	28	0.32
Oct-27	1.8	1.3	1.3	0.9	1.8	1.6	1.3	0.8	0.90	8.0	0.82	7.0	11.9	0	2.2	0.9	0.0	91	28	0.32
Oct-28	1.8	1.3	1.3	1.0	1.8	1.6	1.3	0.7	0.86	7.0	0.83	7.0	11.4	0	2.2	1.1	0.0	84	27	0.31
Oct-29	1.8	1.3	1.3	1.0	1.8	1.6	1.3	0.7	0.83	6.0	0.85	8.0	11.4	0	2.1	1.2	0.0	84	28	0.31
Oct-30	1.8	1.3	1.3	1.0	1.8	1.6	1.3	0.2	0.86	5.5	0.83	5.5	11.4	0	2.1	1.1	0.0	82	28	0.32
Oct-31	1.7	1.1	1.1	0.7	1.8	1.6	1.3	0.7	0.86	5.5	0.82	6.5	12.2	0	2.1	1.8	0.0	78	30	0.35

Oct-06	Press												
	Press Temp.	RAS Pressed T-1	RAS Pressed T-2	Poly Added Thick.	Poly Added Press	Bins	Onto Thick.	Off Thickener	Off Press	Press Poly Conc.	Thickener Poly Conc.	Net Bin Weight	Gross Bin Weight
	°C	(M3/day)	(M3/day)	# of Bags	# of Bags	#	%	%	%	%	%	Kg	Kg
Min:	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Max:	0	170	175	1	1	4	0.86%	6.25%	12.31%	0.27%	0.53%	8510	0
Average:	0	92.433	90.867	0.4	0.3	2.0	0.05%	0.39%	0.78%	0.01%	0.03%	284	0
Total:		2773	2726	11	10	61							
Oct-1	0	0	21	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-2	0	77	100	0	1	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-3	0	75	75	1	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-4	0	0	0	0	0	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-5	0	127	125	1	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-6	0	125	124	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-7	0	160	175	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-8	0	140	148	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-9	0	99	105	1	1	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-10	0	0	0	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-11	0	0	0	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-12	0	50	48	1	1	3	0.86%	6.25%	12.31%	0.27%	0.53%	0	0
Oct-13	0	90	120	1	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-14	0	150	123	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-15	0	125	127	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-16	0	100	35	1	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-17	0	100	130	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-18	0	0	0	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-19	0	110	110	1	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	8510	0
Oct-20	0	125	125	0	0	2	0.71%	5.34%	11.00%	0.13%	0.28%	0	0
Oct-21	0	157	167	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-22	0	83	72	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-23	0	51	51	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-24	0	0	0	1	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-25	0	170	120	1	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-26	0	150	150	1	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-27	0	100	100	0	0	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-28	0	125	150	0	0	0	0.00%	0.00%	0.00 %	0.00%	0.00%	0	0
Oct-29	0	152	125	1	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-30	0	132	100	0	0	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Oct-31	0	0	0	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0

Lift Station Hours

Nov-06	Wilson St.		Lee Ave.		Fairview		Marina Way		Airport		Lakeside N.		Lakeside S.		Alberni		
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3
Min:	0	0	4	4	0	0	0	0	0	0	0	0	0	1	2	2	2
Max:	1	1	5	5	1	1	1	2	1	1	0	0	2	2	2	2	2
Average:	0	0	5	4	1	1	0	0	0	0	0	0	1	1	2	2	2
Total:	5	5	139	132	17	17	5	6	9	9	4	0	31	40	52	59	61
Nov-1	0.1	0.1	4.5	4.2	0.5	0.5	0.1	0.1	0.4	0.4	0.2	0.0	0.0	1.3	1.7	1.9	2.0
Nov-2	0.3	0.3	4.5	4.3	0.7	0.6	0.2	0.1	0.3	0.3	0.2	0.0	0.0	1.4	1.8	2.0	2.1
Nov-3	0.1	0.2	4.4	4.2	0.6	0.6	0.1	0.1	0.2	0.2	0.2	0.0	0.0	1.3	1.8	2.0	2.1
Nov-4	0.1	0.1	4.4	4.1	0.7	0.6	0.1	0.1	0.2	0.2	0.2	0.0	0.0	1.3	1.9	2.1	2.2
Nov-5	0.1	0.1	4.5	4.3	0.7	0.7	0.1	0.1	0.2	0.2	0.2	0.0	0.0	1.3	1.9	2.1	2.2
Nov-6	0.1	0.1	4.6	4.3	0.7	0.7	0.1	0.1	0.2	0.2	0.1	0.0	0.0	1.4	1.8	2.0	2.2
Nov-7	0.1	0.1	4.7	4.3	0.6	0.7	0.1	0.1	0.4	0.4	0.3	0.0	0.6	1.0	1.8	2.0	2.1
Nov-8	0.6	0.5	4.6	4.3	0.6	0.6	0.2	0.2	0.3	0.3	0.1	0.0	0.7	0.7	1.8	2.0	2.1
Nov-9	0.1	0.1	4.5	4.3	0.6	0.6	0.2	0.2	0.3	0.3	0.2	0.0	0.6	0.7	1.8	1.9	2.1
Nov-10	0.1	0.1	4.5	4.3	0.6	0.6	0.1	0.1	0.3	0.3	0.2	0.0	0.6	0.7	1.7	1.9	2.0
Nov-11	0.4	0.4	4.6	4.4	0.6	0.6	0.1	0.1	0.3	0.3	0.1	0.0	1.4	1.4	1.8	2.0	2.1
Nov-12	0.3	0.3	4.8	4.6	0.4	0.5	0.7	1.1	0.2	0.2	0.2	0.0	1.8	1.8	1.7	2.0	2.1
Nov-13	0.2	0.1	4.8	4.6	0.4	0.4	0.1	0.1	0.2	0.2	0.1	0.0	1.7	1.8	1.7	2.0	2.0
Nov-14	0.1	0.1	5.1	4.9	0.7	0.7	0.1	0.1	0.2	0.2	0.2	0.0	1.9	1.9	1.8	2.1	2.2
Nov-15	0.1	0.1	4.7	4.4	0.5	0.5	0.1	0.1	0.3	0.3	0.3	0.0	1.4	1.6	1.8	1.9	2.0
Nov-16	0.1	0.1	4.5	4.3	0.5	0.5	1.4	1.5	0.3	0.3	0.1	0.0	1.4	1.3	1.8	2.1	2.1
Nov-17	0.1	0.1	4.6	4.4	0.5	0.5	0.1	0.1	0.3	0.3	0.3	0.0	1.4	1.4	1.7	1.9	1.7
Nov-18	0.2	0.2	4.6	4.3	0.5	0.5	0.1	0.1	0.2	0.2	0.1	0.0	1.2	1.4	1.7	1.9	2.0
Nov-19	0.1	0.1	4.7	4.4	0.5	0.5	0.1	0.1	0.2	0.2	0.2	0.0	1.4	1.4	1.7	1.9	2.0
Nov-20	0.1	0.1	4.7	4.6	0.6	0.6	0.1	0.1	0.3	0.3	0.2	0.0	1.4	1.4	1.7	2.0	1.9
Nov-21	0.1	0.1	4.8	4.4	0.5	0.4	0.1	0.1	0.3	0.3	0.2	0.0	1.4	1.2	1.7	1.8	1.9
Nov-22	0.1	0.1	4.8	4.4	0.5	0.5	0.1	0.1	0.3	0.3	0.2	0.0	1.4	1.3	1.7	1.9	2.0
Nov-23	0.1	0.1	4.6	4.4	0.6	0.5	0.1	0.1	0.2	0.2	0.0	0.0	1.4	1.4	1.7	1.9	2.0
Nov-24	0.1	0.1	4.6	4.4	0.5	0.5	0.1	0.1	0.6	0.6	0.0	0.0	1.4	1.5	1.8	2.0	2.1
Nov-25	0.2	0.2	4.7	4.4	0.5	0.5	0.1	0.1	0.6	0.6	0.0	0.0	1.4	1.2	1.7	2.0	2.0
Nov-26	0.1	0.1	4.6	4.5	0.5	0.5	0.1	0.1	0.2	0.2	0.0	0.0	1.4	1.4	1.8	2.0	2.1
Nov-27	0.1	1.0	4.8	4.5	0.4	0.4	0.1	0.1	0.2	0.2	0.0	0.0	1.2	1.4	1.7	1.9	2.0
Nov-28	0.1	0.1	4.7	4.4	0.5	0.5	0.1	0.1	0.3	0.3	0.0	0.0	1.4	1.4	1.6	1.8	2.0
Nov-29	0.1	0.1	4.7	4.4	0.6	0.6	0.1	0.1	0.5	0.5	0.0	0.0	1.4	1.3	1.6	1.8	1.9
Nov-30	0.1	0.1	4.7	4.5	0.8	0.8	0.1	0.1	0.3	0.3	0.0	0.0	1.4	1.3	1.7	2.0	2.0

Nov-06	General			Headworks Primaries Fermenters											
	Natural Gas Totalizer	Ambient Temp min	Ambient Temp max.	Influent Flow	Bar Screen Cycles	Train #1 Prim sludge to Ferm.	Ferm #1 Sludge to Digester	Ferm #1 HRT	Ferm #1 SRT	Ferm #1 Blanket Level	Ferm #2 Blanket Level	Train #2 Prim sludge to Ferm.	Ferm #2 Sludge to Digester	Ferm #2 HRT	Ferm #2 SRT
	(M^3/day)	Temp (°C)	Temp (°C)	ML / Day		(M^3/day)	(M^3/day)	Hours	Days	(Feet down from top)	(Feet down from top)	(M^3/day)	(M^3/day)	Hours	Days
Min:	0	-18	-13	11	88	321	0	23	0	0	0	317	21	22	5
Max:	0	10	15	14	123	361	60	26	42	12	8	375	72	26	17
Average:	0	-1	4	13	97	353	36	24	11	7	4	351	40	24	9
Total:	0	1.6		380	2906	10576	1072				118	10537	1210		
Nov-1	0	-9.0	2.0	12	98	351	51	24	7	9	5	317	45	26	8
Nov-2	0	-6.0	5.0	13	105	360	48	23	7	9	6	357	42	24	8
Nov-3	0	4.1	5.9	13	103	350	41	24	9	10	7	355	34	24	10
Nov-4	0	5.5	10.2	13	98	351	19	24	18	12	5	359	30	23	12
Nov-5	0	7.6	10.5	12	101	360	0	23	0	9	6	363	30	23	12
Nov-6	0	10.0	15.0	13	97	360	24	23	15	12	3	327	30	26	12
Nov-7	0	5.0	15.0	13	98	360	25	23	14	12	4	346	41	24	9
Nov-8	0	0.0	0.0	13	94	360	23	23	15	10	4	346	45	24	8
Nov-9	0	0.0	0.0	13	96	350	32	24	11	8	4	363	45	23	8
Nov-10	0	-2.0	6.0	13	102	360	47	23	7	8	4	363	45	23	8
Nov-11	0	-1.0	6.0	13	98	351	47	24	8	8	7	361	45	23	8
Nov-12	0	0.0	0.0	12	94	341	45	25	8	9	8	332	43	25	8
Nov-13	0	2.0	7.0	13	93	341	43	25	8	9	7	333	40	25	9
Nov-14	0	-1.0	6.0	13	110	350	43	24	8	9	0	355	39	24	9
Nov-15	0	-1.0	4.0	13	123	351	43	24	8	0	6	322	39	26	9
Nov-16	0	-1.0	5.0	13	101	361	42	23	8	8	0	352	39	24	9
Nov-17	0	3.0	8.5	12	101	341	36	25	10	11	4	361	45	23	8
Nov-18	0	8.8	3.7	14	94	351	8	24	42	10	7	340	44	25	8
Nov-19	0	6.0	9.0	11	92	350	0	24	0	9	6	369	44	23	8
Nov-20	0	6.0	7.0	13	92	360	11	23	32	10	7	375	72	22	5
Nov-21	0	5.0	8.0	13	96	321	21	26	17	8	5	357	26	24	13
Nov-22	0	3.0	7.0	13	91	341	23	25	15	8	6	352	21	24	16
Nov-23	0	-1.0	4.0	12	95	351	29	24	12	8	0	334	27	25	13
Nov-24	0	0.0	0.0	13	94	361	51	23	7	0	0	352	47	24	7
Nov-25	0	-3.0	1.0	13	90	351	43	24	8	0	0	370	55	23	6
Nov-26	0	-4.0	-2.0	12	88	360	53	23	7	0	0	360	49	23	7
Nov-27	0	-14.0	-3.0	12	88	360	59	23	6	0	7	330	54	25	6
Nov-28	0	-16.0	-13.0	13	90	361	60	23	6	0	0	374	38	22	9
Nov-29	0	-18.0	-8.0	12	90	351	56	24	6	0	0	363	35	23	10
Nov-30	0	-9.0	-4.0	13	94	360	51	23	7	9	0	349	21	24	17

Nov-06	Digesters									Bioreactor #1				Bioreactor #2			
	Gas Prod.	Waste Gas Burned	Prim. Dig. HRT	Sec. Dig. HRT	Total Sludge to Dig.	Clarity of Supernate	Sec. Dig.	Sec. Dig. Blanket Depth	Sec. Dig. Supernate to plant	T1 Cell 8a	T1 Cell 8b	T1 Cell 9a	T1 Cell9b	T2 Cell 8a	T2 Cell 8b	T2 Cell 9a	T2 Cell 9b
	(M^3/day)	(M^3/day)	Days	Days	(M^3/day)	1,2,3	# of Rings	ft	(M^3/day)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)
Min:	0	-73	0	23	44	0	0	0	0	1.7	1.1	1.1	0.7	1.8	1.5	1.2	0.7
Max:	909	172	60	26	216	3	3	0	113	2.0	1.6	1.6	1.5	2.0	1.8	1.8	1.0
Average:	450	46	36	24	104	1	1	0	59	1.9	1.4	1.4	1.1	1.9	1.7	1.4	0.8
Total:	13496	1378			3131				1776								
Nov-1	393	91	51	24	96	3	0	0	79	1.7	1.1	1.1	0.7	1.8	1.6	1.3	0.7
Nov-2	385	76	48	23	184	3	0	0	96	1.7	1.1	1.1	0.8	1.8	1.6	1.3	0.7
Nov-3	830	27	41	24	132	3	0	0	0	1.8	1.1	1.1	0.7	1.9	1.6	1.3	0.7
Nov-4	182	66	19	24	49	3	0	0	18	1.8	1.1	1.1	0.7	1.8	1.6	1.3	0.7
Nov-5	83	65	0	23	49	0	0	0	49	1.8	1.1	1.1	0.7	1.9	1.6	1.3	0.7
Nov-6	460	9	24	23	216	2	0	0	49	1.8	1.1	1.1	0.7	1.9	1.6	1.3	0.7
Nov-7	562	107	25	23	103	0	0	0	0	1.8	1.1	1.1	0.7	1.8	1.6	1.2	0.7
Nov-8	240	42	23	23	69	2	0	0	27	1.9	1.5	1.5	1.2	1.9	1.6	1.5	0.8
Nov-9	175	0	32	24	77	0	2	0	69	1.9	1.5	1.5	1.2	1.9	1.7	1.5	0.8
Nov-10	309	21	47	23	92	0	2	0	77	1.9	1.5	1.5	1.2	1.9	1.7	1.5	0.8
Nov-11	372	28	47	24	92	0	1	0	92	1.9	1.5	1.5	1.2	1.9	1.6	1.5	0.8
Nov-12	282	38	45	25	88	2	3	0	92	1.9	1.5	1.5	1.2	1.9	1.6	1.5	0.8
Nov-13	311	4	43	25	83	2	1	0	94	1.9	1.5	1.5	1.2	1.9	1.5	1.3	0.8
Nov-14	414	42	43	24	82	1	1	0	83	1.9	1.5	1.5	1.2	1.9	1.6	1.4	0.8
Nov-15	537	43	43	24	194	0	0	0	82	1.9	1.5	1.5	1.1	1.9	1.7	1.5	1.0
Nov-16	650	37	42	23	186	0	0	0	0	1.9	1.5	1.5	1.1	1.9	1.6	1.4	1.0
Nov-17	485	15	36	25	105	0	0	0	0	2.0	1.5	1.5	1.2	2.0	1.7	1.3	0.8
Nov-18	684	33	8	24	52	0	0	0	57	2.0	1.5	1.5	1.3	2.0	1.8	1.8	0.8
Nov-19	449	12	0	24	44	0	0	0	52	2.0	1.5	1.5	1.3	2.0	1.7	1.4	0.8
Nov-20	0	0	11	23	183	0	0	0	44	2.0	1.5	1.5	1.3	2.0	1.7	1.4	0.9
Nov-21	423	0	21	26	47	0	1	0	0	2.0	1.5	1.5	1.3	2.0	1.8	1.5	0.8
Nov-22	514	126	23	25	45	2	1	0	95	2.0	1.5	1.5	1.3	2.0	1.8	1.5	0.8
Nov-23	398	-73	29	24	56	0	1	0	93	2.0	1.5	1.5	1.3	2.0	1.8	1.5	0.8
Nov-24	643	95	51	23	128	0	0	0	56	1.8	1.5	1.5	1.3	1.8	1.7	1.5	0.7
Nov-25	778	58	43	24	98	0	1	0	68	1.8	1.6	1.6	1.4	1.8	1.8	1.6	0.8
Nov-26	909	169	53	23	102	0	1	0	98	1.8	1.6	1.6	1.5	1.8	1.8	1.6	0.8
Nov-27	342	43	59	23	113	3	1	0	102	1.8	1.6	1.6	1.4	1.8	1.8	1.5	0.8
Nov-28	778	172	60	23	108	3	0	0	113	1.8	1.5	1.5	1.3	1.8	1.8	1.5	0.8
Nov-29	810	21	56	24	176	0	0	0	88	1.8	1.5	1.5	1.1	1.8	1.7	1.5	0.7
Nov-30	98	11	51	23	86	0	0	0	6	1.8	1.5	1.5	1.1	1.8	1.7	1.5	0.7

Nov-06	Clarifiers				Effluent							
	R.A.S. Clarifier 1	Sludge Blanket 1	R.A.S. Clarifier 2	Sludge Blanket 2	Effluent Flow	Irr. Flow	Cl2 Analyzer	End of Contact Chlorine	Effluent Chlorine	Cl_2	SO_2	Turbidity
	%	Depth (feet)	%	Depth (feet)	ML / Day	(M^3/day)	(mg/L)	(mg/l)	(mg/l)	(Kg/day)	(Kg/day)	NTU
Min:	0.77	4.0	0.72	6.0	10.7	0	1.7	0.5	0.0	62	13	0.21
Max:	0.95	8.0	0.85	9.0	15.3	0	2.6	2.9	0.0	89	38	0.52
Average:	0.84	6.6	0.79	7.5	12.3	0	2.0	1.3	0.0	75	28	0.34
Total:					367.9	0				2256	828	
Nov-1	0.86	6.0	0.82	6.0	12.1	0	1.8	1.3	0.0	89	29	0.33
Nov-2	0.84	8.0	0.83	6.0	11.9	0	1.9	1.0	0.0	75	29	0.34
Nov-3	0.84	7.0	0.81	6.0	11.4	0	1.7	0.9	0.0	77	27	0.31
Nov-4	0.90	6.0	0.83	7.0	12.9	0	2.4	0.9	0.0	72	32	0.25
Nov-5	0.95	7.0	0.85	7.0	13.0	0	2.2	0.7	0.0	82	29	0.21
Nov-6	0.89	7.0	0.84	8.0	13.2	0	1.8	1.2	0.0	75	34	0.30
Nov-7	0.90	7.0	0.84	7.0	13.7	0	1.9	1.8	0.0	79	33	0.30
Nov-8	0.89	7.0	0.83	6.0	13.0	0	1.8	0.9	0.0	80	32	0.24
Nov-9	0.88	6.0	0.80	7.5	13.1	0	1.9	0.9	0.0	77	31	0.23
Nov-10	0.84	8.0	0.81	8.0	13.1	0	1.8	1.2	0.0	78	34	0.27
Nov-11	0.84	7.0	0.81	8.0	13.0	0	1.8	1.1	0.0	80	28	0.27
Nov-12	0.86	7.0	0.81	8.0	10.9	0	2.0	1.2	0.0	78	28	0.26
Nov-13	0.88	5.0	0.82	7.0	12.8	0	1.7	1.0	0.0	77	29	0.26
Nov-14	0.88	5.0	0.83	8.0	12.8	0	1.9	1.6	0.0	76	31	0.30
Nov-15	0.86	4.0	0.81	8.0	13.6	0	1.8	1.7	0.0	72	32	0.27
Nov-16	0.82	6.0	0.83	9.0	13.4	0	2.4	2.9	0.0	79	35	0.30
Nov-17	0.80	8.0	0.79	7.0	12.4	0	2.6	2.6	0.0	67	36	0.32
Nov-18	0.80	7.0	0.77	9.0	15.3	0	1.7	0.5	0.0	66	38	0.31
Nov-19	0.81	7.0	0.76	8.0	12.1	0	2.2	0.5	0.0	63	35	0.30
Nov-20	0.80	6.0	0.78	8.0	11.6	0	1.8	0.5	0.0	62	31	0.35
Nov-21	0.81	7.0	0.79	8.0	11.9	0	2.3	0.7	0.0	75	24	0.37
Nov-22	0.82	6.0	0.79	7.0	11.3	0	2.5	1.0	0.0	72	21	0.42
Nov-23	0.79	7.0	0.75	7.0	11.1	0	oos	1.0	0.0	74	21	0.40
Nov-24	0.78	8.0	0.73	8.0	11.7	0	oos	1.7	0.0	78	20	0.49
Nov-25	0.81	7.5	0.72	8.0	11.5	0	oos	1.0	0.0	80	19	0.52
Nov-26	0.77	6.0	0.72	7.0	10.8	0	oos	1.2	0.0	72	21	0.51
Nov-27	0.78	6.0	0.73	8.0	10.7	0	oos	1.1	0.0	75	13	0.51
Nov-28	0.79	6.5	0.72	7.5	10.8	0	oos	1.6	0.0	74	18	0.46
Nov-29	0.80	4.5	0.74	8.0	10.8	0	oos	1.9	0.0	75	20	0.42
Nov-30	0.78	7.0	0.76	7.5	12.1	0	oos	2.2	0.0	77	18	0.41

Nov-06	Press												
	Press Temp.	RAS Pressed T-1	RAS Pressed T-2	Poly Added Thick.	Poly Added Press	Bins	Onto Thick.	Off Thickener	Off Press	Press Poly Conc.	Thickener Poly Conc.	Net Bin Weight	Gross Bin Weight
	°C	(M3/day)	(M3/day)	# of Bags	# of Bags	#	%	%	%	%	%	Kg	Kg
Min:	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Max:	0	259	186	2	2	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Average:	0	107.34	86.586	0.2	0.3	1.8	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Total:		3113	2511	6	8	53							
Nov-1	0	150	150	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-2	0	103	175	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-3	0	83	0	1	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-4	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-5	0	123	145	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-6	0	147	186	0	0	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-7	0	160	0	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-8	0	150	150	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-9	0	160	180	0	0	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-10	0	100	100	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-11	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-12	0	75	0	1	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-13	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-14	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-15	0	255	112	0	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-16	0	202	153	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-17	0	98	100	2	2	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-18	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-19	0	198	100	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-20	0	150	184	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-21	0	0	150	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-22	0	200	175	1	1	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-23	0	0	0	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-24	0	64	103	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-25	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-26	0	136	127	1	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-27	0	200	143	0	0	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-28	0	100	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-29	0	259	78	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Nov-30	0	106	103	0	0	2	3.05%	5.66%	11.29%	0.26%	0.29%	0	0

Lift Station Hours

Dec-06	Wilson St.		Lee Ave.		Fairview		Front St.		Airport		Lakeside N.		Lakeside S.		Alberni		
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3
Min:	0.0	0.0	4.1	4.2	0.2	0.2	0.1	0.1	0.2	0.2	0.0	0.0	0.8	0.8	1.5	0.9	0.9
Max:	0.3	0.3	5.2	5.0	0.9	7.0	1.0	1.0	0.7	0.7	0.0	0.0	1.6	14.0	11.8	2.1	2.2
Average:	0.1	0.1	4.6	4.5	0.5	0.7	0.2	0.1	0.4	0.4	0.0	0.0	1.3	1.7	2.2	1.9	2.0
Total:	4.1	3.8	142.7	138.4	16.5	22.4	4.7	4.5	12.6	12.6	0.0	0.0	39.2	52.5	69.5	58.7	60.7
Dec-1	0.2	0.2	4.6	4.3	0.9	0.8	0.1	0.1	0.3	0.3	0.0	0.0	1.4	1.4	1.7	1.9	2.0
Dec-2	0.1	0.1	4.5	4.4	0.7	0.7	0.2	0.2	0.3	0.3	0.0	0.0	1.3	1.4	1.7	1.9	2.0
Dec-3	0.1	0.1	4.6	4.4	0.4	0.4	0.2	0.2	0.4	0.4	0.0	0.0	1.3	1.6	1.7	2.1	2.1
Dec-4	0.2	0.2	5.1	4.9	0.6	0.6	0.1	0.1	0.4	0.4	0.0	0.0	1.6	14.0	1.7	1.9	2.1
Dec-5	0.1	0.1	4.6	4.4	0.5	0.5	0.2	0.2	0.3	0.3	0.0	0.0	1.2	1.3	1.7	1.9	2.0
Dec-6	0.1	0.1	4.4	4.2	0.5	0.5	0.2	0.2	0.2	0.2	0.0	0.0	1.0	0.8	1.7	1.9	2.0
Dec-7	0.1	0.1	4.4	4.3	0.5	0.5	0.2	0.1	0.3	0.3	0.0	0.0	0.9	0.9	1.7	1.9	1.9
Dec-8	0.1	0.1	4.1	4.8	0.7	0.6	0.1	0.1	0.3	0.3	0.0	0.0	0.9	0.8	1.7	1.9	2.0
Dec-9	0.2	0.1	4.3	4.3	0.7	0.7	0.1	0.1	0.3	0.3	0.0	0.0	0.8	0.9	1.8	2.0	2.1
Dec-10	0.2	0.1	4.2	4.8	0.7	0.6	0.2	0.2	0.2	0.2	0.0	0.0	0.8	0.8	1.8	2.0	2.1
Dec-11	0.1	0.1	4.5	4.5	0.6	7.0	0.2	0.1	0.2	0.2	0.0	0.0	0.8	0.9	1.8	2.0	2.0
Dec-12	0.1	0.1	4.5	4.6	0.6	0.6	0.1	0.1	0.4	0.4	0.0	0.0	1.0	1.0	1.7	2.0	2.0
Dec-13	0.1	0.1	4.6	4.6	0.5	0.5	0.1	0.1	0.4	0.4	0.0	0.0	1.0	1.1	1.7	1.9	2.0
Dec-14	0.1	0.1	4.5	4.4	0.5	0.5	0.1	0.1	0.4	0.4	0.0	0.0	1.3	1.3	1.8	2.1	2.2
Dec-15	0.1	0.1	4.5	4.6	0.5	0.4	0.1	0.1	0.4	0.4	0.0	0.0	1.4	1.4	1.8	2.1	2.1
Dec-16	0.3	0.3	5.2	5.0	0.5	0.5	1.0	1.0	0.6	0.6	0.0	0.0	1.4	1.5	1.9	2.1	2.2
Dec-17	0.1	0.1	4.6	4.4	0.5	0.5	0.1	0.1	0.4	0.4	0.0	0.0	1.4	1.4	1.8	2.1	2.2
Dec-18	0.1	0.1	4.7	4.4	0.6	0.6	0.1	0.1	0.2	0.2	0.0	0.0	1.5	1.4	1.8	2.0	2.1
Dec-19	0.1	0.1	4.6	4.4	0.5	0.5	0.1	0.1	0.4	0.4	0.0	0.0	1.3	1.4	1.7	1.9	2.0
Dec-20	0.1	0.1	4.6	4.3	0.5	0.5	0.1	0.1	0.4	0.4	0.0	0.0	1.4	1.3	1.7	1.9	2.0
Dec-21	0.1	0.1	4.6	4.4	0.5	0.5	0.1	0.1	0.6	0.6	0.0	0.0	1.3	1.4	1.7	1.9	1.9
Dec-22	0.1	0.1	4.6	4.5	0.5	0.5	0.1	0.1	0.7	0.7	0.0	0.0	1.4	1.4	1.7	1.9	1.9
Dec-23	0.1	0.1	4.7	4.5	0.5	0.5	0.1	0.1	0.4	0.4	0.0	0.0	1.4	1.4	1.7	1.9	2.0
Dec-24	0.3	0.2	4.8	4.6	0.5	0.5	0.1	0.1	0.4	0.4	0.0	0.0	1.5	1.4	1.7	1.9	2.0
Dec-25	0.2	0.1	4.8	4.4	0.4	0.4	0.1	0.1	0.5	0.5	0.0	0.0	1.4	1.4	1.6	1.8	1.8
Dec-26	0.1	0.1	4.5	4.3	0.2	0.2	0.1	0.1	0.5	0.5	0.0	0.0	1.5	1.5	1.5	1.6	1.7
Dec-27	0.1	0.0	4.6	4.3	0.4	0.3	0.1	0.1	0.5	0.5	0.0	0.0	1.4	1.5	1.6	1.7	1.8
Dec-28	0.1	0.1	4.7	4.4	0.4	0.4	0.1	0.1	0.5	0.5	0.0	0.0	1.4	1.4	11.8	0.9	0.9
Dec-29	0.1	0.2	4.8	4.3	0.5	0.5	0.1	0.1	0.5	0.5	0.0	0.0	1.4	1.7	7.7	1.6	1.6
Dec-30	0.0	0.1	4.7	4.3	0.5	0.5	0.1	0.1	0.5	0.5	0.0	0.0	1.4	1.3	1.8	2.0	2.0
Dec-31	0.3	0.3	4.8	4.4	0.6	0.6	0.1	0.1	0.7	0.7	0.0	0.0	1.4	1.5	1.8	2.0	2.0

Dec-06	General			Headworks Primaries Fermenters											
	Natural Gas Totalizer	Ambient Temp min	Ambient Temp max.	Influent Flow	Bar Screen Cycles	Train #1 Prim sludge to Ferm.	Ferm #1 Sludge to Digester	Ferm #1 HRT	Ferm #1 SRT	Ferm #1 Blanket Level	Ferm #2 Blanket Level	Train #2 Prim sludge to Ferm.	Ferm #2 Sludge to Digester	Ferm #2 HRT	Ferm #2 SRT
	(M^3/day)	Temp (°C)	Temp (°C)	ML / Day		(M^3/day)	(M^3/day)	Hours	Days	(Feet down from top)	(Feet down from top)	(M^3/day)	(M^3/day)	Hours	Days
Min:	0	-12	-10	11.1	94	0	0	22	4	0	0	242	0	22	4
Max:	5841	4	8	14.2	121	380	84	76	140	10	9	375	96	35	18
Average:	251	-3	1	12.7	101	237	11	27	38	5	3	335	47	25	9
Total:	7766	-1.0		393.9	3122	7348	337					10387	1448		
Dec-1	0	-9.0	-4.0	13.7	94	350	22	24	16	10	0	361	44	23	8
Dec-2	0	-6.0	-3.0	11.2	97	360	3	23	109	9	3	369	69	23	5
Dec-3	0	-7.0	-2.0	11.9	95	350	3	24	140	7	5	348	72	24	5
Dec-4	0	-2.0	0.0	13.1	100	360	5	23	65	7	5	367	60	23	6
Dec-5	0	-9.0	-2.0	12.8	111	360	10	23	36	5	7	373	54	23	6
Dec-6	0	-4.0	1.0	12.6	102	351	10	24	35	6	9	354	55	24	6
Dec-7	0	-2.4	3.0	12.9	97	350	20	24	18	5	8	375	22	22	16
Dec-8	0	-3.0	3.0	12.8	101	351	24	24	15	0	6	358	35	23	10
Dec-9	0	-3.0	3.0	12.6	97	360	29	23	12	2	6	305	39	28	9
Dec-10	0	0.0	0.0	12.1	103	351	39	24	9	0	7	341	39	25	9
Dec-11	0	3.0	6.0	12.1	98	360	48	23	7	2	0	372	39	23	9
Dec-12	0	4.0	8.0	13.1	101	111	84	76	4	0	2	307	19	27	18
Dec-13	5841	2.0	8.0	12.6	121	0	26		14	o.o.s	0	307	23	27	15
Dec-14	68	-1.0	5.0	14.2	104	0	0			o.o.s	0	347	38	24	9
Dec-15	69	-4.8	7.6	11.7	100	0	0			o.o.s	0	321	38	26	9
Dec-16	93	-0.1	-10.1	13.6	97	0	0			o.o.s	0	293	38	29	9
Dec-17	90	0.0	-5.0	12.1	98	0	0			0	0	345	38	24	9
Dec-18	122	0.0	-5.0	12.7	103	0	0			oos	0	322	38	26	9
Dec-19	122	0.0	-2.0	13.3	98	0	0			oos	0	331	38	25	9
Dec-20	95	3.0	-1.0	12.6	99	0	0			oos	0	335	38	25	9
Dec-21	100	3.0	0.0	13.2	98	0	0			oos	0	349	38	24	9
Dec-22	138	-1.0	1.3	13.3	103	250	0	34		oos	3	294	38	29	9
Dec-23	100	0.0	0.0	13.5	99	371	0	23		10+	3	242	38	35	9
Dec-24	110	-5.4	2.5	12.9	97	380	0	22		10	0	308	38	27	9
Dec-25	104	0.9	3.3	12.3	98	371	0	23		9	3	345	0	24	
Dec-26	92	-1.3	1.3	11.1	101	370	9	23	38	10	7	364	48	23	7
Dec-27	129	-0.7	2.6	11.9	98	350	0	24		10	6	351	48	24	7
Dec-28	93	-11.8	0.5	12.9	102	321	6	26	55	8	4	302	89	28	4
Dec-29	115	-12.3	0.1	12.9	102	310	0	27		4	3	337	89	25	4
Dec-30	176	-8.4	-0.8	13.4	103	300	0	28		2	5	344	96	24	4
Dec-31	109	-6.4	-1.4	12.7	105	311	0	27		2	3	320	96	26	4

Dec-06	Digesters									Bioreactor #1				Bioreactor #2			
	Gas Prod.	Waste Gas Burned	Prim. Dig. HRT	Sec. Dig. HRT	Total Sludge to Dig.	Clarity of Supernate	Sec. Dig.	Sec. Dig. Blanket Depth	Sec. Dig. Supernate to plant	T1 Cell 8a	T1 Cell 8b	T1 Cell 9a	T1 Cell 9b	T2 Cell 8a	T2 Cell 8b	T2 Cell 9a	T2 Cell 9b
	(M^3/day)	(M^3/day)	Days	Days	(M^3/day)	1,2,3	# of Rings	ft	(M^3/day)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)	D.O. (mg/L)
Min:	0	0	0	22	38	0	0	0	-53	1.9	0.9	0.9	0.5	1.7	1.7	0.9	0.3
Max:	1822	466	84	76	171	3	3	10	133	20.8	192.0	192.0	1.1	2.5	1.8	2.0	0.9
Average:	743	130	11	27	93	2	1	1	29	2.8	7.4	7.4	0.8	2.2	1.7	1.3	0.7
Total:	23023	4039			2783				855								
Dec-1	458	377	22	24	93	3	0	0	59	1.9	1.5	1.5	1.1	1.9	1.7	1.5	0.7
Dec-2	1196	17	3	23	72	3	2	0	39	2.1	1.0	1.0	0.5	2.1	1.7	2.0	0.3
Dec-3	760	295	3	24	144	3	3	0	72	20.8	0.9	0.9	0.6	2.1	1.7	0.9	0.6
Dec-4	393	83	5	23	171	3	2	0	6	2.1	0.9	0.9	0.6	2.1	1.7	0.9	0.6
Dec-5	566	63	10	23	139	0	0	0	0	2.1	192.0	192.0	0.7	2.1	1.7	0.9	0.6
Dec-6	564	34	10	24	121	0	0	0	-11	2.1	1.1	1.1	0.9	2.1	1.7	1.1	0.6
Dec-7	624	41	20	24	42	0	0	0	7	2.1	1.3	1.3	0.9	2.0	1.7	1.3	0.6
Dec-8	643	114	24	24	58	0	0	0	42	2.0	1.2	1.2	0.9	2.0	1.7	1.2	0.6
Dec-9	605	57	29	23	68	0	0	0	58	1.9	1.2	1.2	0.9	1.9	1.7	1.2	0.6
Dec-10	557	64	39	24	164	1	0	0	68	2.0	1.2	1.2	0.9	2.0	1.7	1.2	0.6
Dec-11	392	94	48	23	117	0	1	0	-8	2.0	1.2	1.2	0.9	2.0	1.7	1.2	0.6
Dec-12	347	38	84	76	103	0	0	0	59	1.9	1.2	1.2	0.8	1.7	1.7	1.2	0.6
Dec-13	197	0	26		49	0	0	0	133	2.0	1.3	1.3	0.8	2.0	1.7	1.3	0.6
Dec-14	909	34	0		77	3	0	0	49	2.0	1.3	1.3	0.9	2.0	1.7	1.3	0.7
Dec-15	1300	44	0		78	3	0	0	-2	2.0	1.3	1.3	0.9	2.0	1.7	1.3	0.9
Dec-16	1095	406	0		38	3	0	0	-3	2.0	1.3	1.3	0.9	2.0	1.7	1.3	0.7
Dec-17	435	60	0		38	3	0	0	38	2.0	1.3	1.3	0.9	2.0	1.7	1.3	0.8
Dec-18	442	63	0		100	3	0	0	38	2.2	1.3	1.3	1.0	2.2	1.7	1.3	0.8
Dec-19	1006	66	0		58	2	0	0	-25	2.2	1.3	1.3	0.9	2.2	1.7	1.3	0.8
Dec-20	932	25	0		123	0	0	0	35	2.2	1.3	1.3	0.9	2.2	1.7	1.3	0.8
Dec-21	803	32	0		128	0	0	0	-48	2.2	1.3	1.3	0.8	2.2	1.7	1.3	0.8
Dec-22	583	31	0	34	79	0	0	10	-53	2.2	1.3	1.3	0.8	2.2	1.8	1.3	0.8
Dec-23	756	56	0	23	38	2	0	7	-4	2.4	1.3	1.3	0.8	2.4	1.8	1.3	0.8
Dec-24	1822	349	0	22	38	3	1	0	38	2.5	1.3	1.3	0.8	2.5	1.8	1.3	0.8
Dec-25	1283	466	0	23		3	2	0	38	2.5	1.3	1.3	0.9	2.5	1.8	1.3	0.3
Dec-26	926	351	9	23	57	2	2	0		2.5	1.3	1.3	0.9	2.5	1.8	1.3	0.8
Dec-27	716	150	0	24	107	3	3	0	57	2.5	1.3	1.3	0.8	2.5	1.8	1.3	0.8
Dec-28	669	190	6	26	157	3	2	0	8	2.5	1.3	1.3	0.8	2.5	1.8	1.3	0.8
Dec-29	1291	383	0	27	141	2	1	4	33	2.5	1.3	1.3	0.9	2.5	1.8	1.3	0.8
Dec-30	0	41	0	28	96	2	0	8	37	2.5	1.3	1.3	0.8	2.5	1.8	1.3	0.8
Dec-31	753	15	0	27	96	1	0	9	96	2.5	1.3	1.3	0.8	2.5	1.8	1.3	0.8

Dec-06	Clarifiers				Effluent							
	R.A.S. Clarifier 1	Sludge Blanket 1	R.A.S. Clarifier 2	Sludge Blanket 2	Effluent Flow	Irr. Flow	Cl2 Analyzer	End of Contact Chlorine	Effluent Chlorine	Cl_2	SO_2	Turbidity
	%	Depth (feet)	%	Depth (feet)	ML / Day	(M^3/day)	(mg/L)	(mg/l)	(mg/l)	(Kg/day)	(Kg/day)	NTU
Min:	0.76	5.0	0.76	7.0	10.5	0	0	0.5	0.0	49	9	0.31
Max:	0.93	10.0	0.93	10.0	15.2	0	0	3.0	0.2	76	42	0.67
Average:	0.82	7.1	0.87	8.3	12.8	0	oos	1.7	0.0	60	25	0.51
Total:					396.3	0				1858	787	15.86
Dec-1	0.77	7.0	0.76	8.5	12.5	0	oos	3.0	0.1	74	20	0.38
Dec-2	0.77	7.5	0.76	9.0	10.5	0	oos	2.7	0.2	60	25	0.36
Dec-3	0.79	7.0	0.76	8.0	11.2	0	oos	2.4	0.0	55	37	0.35
Dec-4	0.79	6.0	0.79	8.5	11.9	0	oos	1.1	0.0	58	41	0.35
Dec-5	0.78	7.0	0.80	8.0	12.4	0	oos	1.6	0.0	54	40	0.35
Dec-6	0.77	5.0	0.81	8.0	11.7	0	oos	1.5	0.0	49	23	0.31
Dec-7	0.76	5.5	0.82	7.5	12.0	0	oos	0.5	0.0	70	42	0.42
Dec-8	0.77	7.0	0.83	7.5	12.1	0	oos	0.9	0.0	67	23	0.41
Dec-9	0.77	6.5	0.84	7.5	13.0	0	oos	1.6	0.0	65	22	0.48
Dec-10	0.79	7.0	0.85	7.5	13.0	0	oos	1.1	0.0	61	26	0.50
Dec-11	0.80	7.0	0.80	7.0	12.4	0	oos	2.0	0.0	60	21	0.51
Dec-12	0.82	10.0	0.90	8.0	14.1	0	oos	2.9	0.0	71	22	0.50
Dec-13	0.82	6.0	0.88	10.0	14.3	0	oos	1.2	0.0	62	27	0.51
Dec-14	0.85	6.0	0.86	8.0	15.2	0	oos	0.9	0.0	66	26	0.51
Dec-15	0.93	7.0	0.92	9.0	12.2	0	oos	2.0	0.0	60	24	0.49
Dec-16	0.85	7.0	0.88	9.0	13.0	0	oos	2.5	0.0	76	26	0.51
Dec-17	0.89	8.5	0.88	9.0	13.0	0	oos	1.3	0.0	61	23	0.46
Dec-18	0.88	7.5	0.90	9.0	13.0	0	oos	1.4	0.0	67	25	0.51
Dec-19	0.88	7.0	0.91	9.0	13.0	0	oos	2.1	0.0	65	24	0.53
Dec-20	0.88	7.0	0.92	9.0	13.0	0	oos	1.9	0.0	53	23	0.55
Dec-21	0.86	6.5	0.93	8.5	13.0	0	oos	2.1	0.0	56	27	0.62
Dec-22	0.87	6.0	0.93	7.5	13.0	0	oos	2.0	0.0	55	26	0.61
Dec-23	0.81	8.0	0.91	8.0	13.0	0	oos	1.9	0.0	55	27	0.61
Dec-24	0.81	8.0	0.91	8.0	13.0	0	oos	1.5	0.0	58	28	0.66
Dec-25	0.82	7.0	0.91	7.0	13.0	0	oos	1.1	0.0	53	20	0.67
Dec-26	0.82	6.0	0.90	7.0	13.0	0	oos	0.9	0.0	54	19	0.63
Dec-27	0.82	6.5	0.91	8.5	13.0	0	oos	1.6	0.0	51	19	0.63
Dec-28	0.79	9..5	0.91	9.5	13.0	0	oos	1.8	0.0	56	21	0.62
Dec-29	0.79	9.5	0.87	10.0	13.0	0	oos	1.5	0.0	56	30	0.58
Dec-30	0.78	10.0	0.88	9.5	13.0	0	oos	1.7	0.2	53	9	0.64
Dec-31	0.80	8.0	0.90	7.5	13.0	0	oos	1.6	0.0	57	21	0.60

Dec-06	Press												
	Press Temp.	RAS Pressed T-1	RAS Pressed T-2	Poly Added Thick.	Poly Added Press	Bins	Onto Thick.	Off Thickener	Off Press	Press Poly Conc.	Thickener Poly Conc.	Net Bin Weight	Gross Bin Weight
	oC	(M3/day)	(M3/day)	# of Bags	# of Bags	#	%	%	%	%	%	Kg	Kg
Min:	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Max:	0	265	244	1	1	4	1.76%	5.64%	11.11%	0.21%	0.20%	9880	0
Average:	0	130.62	108.69	0.2	0.3	1.8	0.15%	0.54%	1.10%	0.02%	0.02%	657	0
Total:		3788	3152	7	10	52							
Dec-1	0	129	0	1	1	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-2	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-3	0	101	115	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-4	0	171	194	0	0	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-5	0	167	152	0	1	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-6	0	125	125	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-7	0	170	150	1	1	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-8	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-9	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-10	0	0	75	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-11	0	150	150	1	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-12	0	153	101	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-13	0	162	126	0	0	2	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-14	0	174	154	0	1	2	1.25%	5.29%	10.94%	0.21%	0.19%	9880	0
Dec-15	0	200	88	1	1	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-16	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-17	0	150	100	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-18	0	215	179	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-19	0	224	166	0	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-20	0	265	169	1	0	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-21	0	252	244	0	0	4	1.76%	4.86%	11.11%	0.20%	0.19%	0	0
Dec-22	0	218	156	0	1	4	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-23	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-24	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-25	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-26	0	229	153	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-27	0	223	193	1	1	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-28	0	57	235	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-29	0	253	127	1	1	3	1.22%	5.64%	9.93%	0.17%	0.20%	9180	0
Dec-30	0	0	0	0	0	3	0.00%	0.00%	0.00%	0.00%	0.00%	0	0
Dec-31	0	258	151	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0	0

Appendix B.14.

Laboratory Test Results From Caro Environmental Services

CARO ENVIRONMENTAL SERVICES

102 - 3677 Highway 97N
Kelowna, B.C. V1X 5C3
Telephone (250) 765-9646
Fax (250) 765-3893
Email caroenvironmental@shaw.ca

CERTIFICATE OF ANALYSIS

January 16, 2006

City of Penticton - AWWTP
171 Main Street
PENTICTON, BC
V2A 5A9

Attention: Dillon Bucknell

Sampled: Jan. 9/06
Received date: Jan. 9/06 7 C

AWWTP Effluent

Parameter	Units	Results
Total Phosphorus	mg/L as P	0.12
Total Kjeldahl Nitrogen	mg/L as N	1.24
Ortho Phosphate	mg/L as P	0.0[illegible]
Nitrate & Nitrite	mg/L as N	4.38
C-BOD	mg/L	<5
COD	mg/L	35
Total Suspended Solids	mg/L	<1
Ammonia	mg/L as N	0.02
pH	pH units	7.4

Certified by:
CARO Environmental Services

Janice M. Fraser, B.Sc.
Lab Manager

FAX (250)490-2552

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CERTIFICATE OF ANALYSIS

February 6, 2006

City of Penticton - AWWTP
171 Main Street
PENTICTON, BC
V2A 5A9

Attention: Dillon Bucknell

Sampled: not provided
Received date: Feb. 1/06 8 C

AWWTP Effluent

Parameter	Units	Results
Total Phosphorus	mg/L as P	0.06
Total Kjeldahl Nitrogen	mg/L as N	1.12
Ortho Phosphate	mg/L as P	0.01
Nitrate & Nitrite	mg/L as N	4.38
T-BOD	mg/L	<5
COD	mg/L	29
Total Suspended Solids	mg/L	<1
Ammonia	mg/L as N	0.10
pH	pH units	6.8

Certified by:
CARO Environmental Services

Janice M. Fraser, B.Sc.
Lab Manager

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CERTIFICATE OF ANALYSIS

amended report

March 29, 2006

City of Penticton - AWWTP
171 Main Street
PENTICTON, BC
V2A 5A9

Attention: Dillon Bucknell

Sampled: Mar. 22/06
Received date: Mar. 22/06

AWWTP Effluent

Parameter	Units	Results
Total Phosphorus	mg/L as P	0.12
Total Kjeldahl Nitrogen	mg/L as N	2.4
Ortho Phosphate	mg/L as P	0.03
Nitrate & Nitrite	mg/L as N	3.95
T-BOD	mg/L	<5
COD	mg/L	35
Total Suspended Solids	mg/L	<1
Ammonia	mg/L as N	0.80
pH	pH units	6.8

Certified by:
CARO Environmental Services

fs Jennifer Shanko
Lab Manager

FAX (250)490-2552

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CERTIFICATE OF ANALYSIS

April 26, 2006

City of Penticton - AWWTP
171 Main Street
PENTICTON, BC
V2A 5A9

Attention: Dillon Bucknell

Sampled: Apr. 19/06
Received date: Apr. 19/06

AWWTP Effluent (grab)

Parameter	Units	Results
Total Phosphorus	mg/L as P	0.11
Total Kjeldahl Nitrogen	mg/L as N	1.96
Ortho Phosphate	mg/L as P	0.03
Nitrate & Nitrite	mg/L as N	4.70
T-BOD	mg/L	<5
COD	mg/L	35
Total Suspended Solids	mg/L	4
Ammonia	mg/L as N	0.63
pH	pH units	6.2

Certified by:
CARO Environmental Services

Jennifer Shanko
Lab Manager

FAX (250)490-2552

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CERTIFICATE OF ANALYSIS

May 26, 2006

City of Penticton - AWWTP
171 Main Street
PENTICTON, BC
V2A 5A9

Attention: Dillon Bucknell

Sampled: May 17/06
Received date: May 17/06 10 C
AWWTP Effluent (grab)

Parameter	Units	Results
Total Phosphorus	mg/L as P	0.13
Total Kjeldahl Nitrogen	mg/L as N	1.30
Ortho Phosphate	mg/L as P	0.05
Nitrate & Nitrite	mg/L as N	6.65
T-BOD	mg/L	<5
COD	mg/L	38
Total Suspended Solids	mg/L	<1
Ammonia	mg/L as N	0.13
pH	pH units	6.5

Certified by:
CARO Environmental Services

Jennifer Shanko
Lab Manager

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CERTIFICATE OF ANALYSIS

June 28, 2006

City of Penticton - AWWTP
171 Main Street
PENTICTON, BC
V2A 5A9

Attention: Dillon Bucknell

Sampled: June 21/06
Received date: June 21/06
AWWTP Effluent (grab)

Parameter	Units	Results
Total Phosphorus	mg/L as P	0.11
Total Kjeldahl Nitrogen	mg/L as N	1.34
Ortho Phosphate	mg/L as P	0.05
Nitrate & Nitrite	mg/L as N	4.65
T-BOD	mg/L	<5
COD	mg/L	35
Total Suspended Solids	mg/L	<1
Ammonia	mg/L as N	0.16
pH	pH units	7.0

Certified by:
CARO Environmental Services

Jennifer Shanko
Lab Manager

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CERTIFICATE OF ANALYSIS

July 26, 2006

City of Penticton - AWWTP
171 Main Street
PENTICTON, BC
V2A 5A9

Attention: Dillon Bucknell

Sampled: July 19/06
Received date: July 19/06
AWWTP Effluent (grab)

Parameter	Units	Results
Total Phosphorus	mg/L as P	0.08
Total Kjeldahl Nitrogen	mg/L as N	1.08
Ortho Phosphate	mg/L as P	0.04
Nitrate & Nitrite	mg/L as N	4.53
T-BOD	mg/L	<5
COD	mg/L	40
Total Suspended Solids	mg/L	<1
Ammonia	mg/L as N	0.04
pH	pH units	6.7

Certified by:
CARO Environmental Services

Jennifer Shanko
Lab Manager

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CERTIFICATE OF ANALYSIS

August 31, 2006

City of Penticton - AWWTP
171 Main Street
PENTICTON, BC
V2A 5A9

Attention: Dillon Bucknell

Sampled:
Received date: Aug 23/06 4:40pm, 12 C
AWWTP Effluent (grab)

Parameter	Units	Results
Total Phosphorus	mg/L as P	0.13
Total Kjeldahl Nitrogen	mg/L as N	1.20
Ortho Phosphate	mg/L as P	0.05
Nitrate & Nitrite	mg/L as N	4.39
T-BOD	mg/L	<5
COD	mg/L	32
Total Suspended Solids	mg/L	<1
Ammonia	mg/L as N	0.02
pH	pH units	6.9

Certified by:
CARO Environmental Services

Jennifer Shanko
Lab Manager

FAX (250)490-2552

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CERTIFICATE OF ANALYSIS

October 6, 2006

City of Penticton - AWWTP
171 Main Street
PENTICTON, BC
V2A 5A9

Attention: Dillon Bucknell

Sampled: Sept 19/06
Received date: Sept 20/06 4:00pm
AWWTP Effluent (grab)

Parameter	Units	Results
Total Phosphorus	mg/L as P	0.10
Total Kjeldahl Nitrogen	mg/L as N	1.07
Ortho Phosphate	mg/L as P	0.05
Nitrate & Nitrite	mg/L as N	4.94
T-BOD	mg/L	<5
COD	mg/L	29
Total Suspended Solids	mg/L	<1
Ammonia	mg/L as N	0.03
pH	pH units	6.8

Certified by:
CARO Environmental Services

Jennifer Shanko, AScT
Lab Manager

FAX (250)490-2552

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Canada V1X 5C3
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ANALYSIS REPORT

CLIENT	City of Penticton, DW & STP	**WORK ORDER #**	0610416
PROJECT NAME	Wastewater	**DATE REPORTED**	25-Oct-06

General Inorganic Parameters

Analyte	Result	RDL	Units	Analyzed	Notes
AWWTP Effluent Composite (0610416-01) Matrix: Water				Sampled: 17-Oct-06	
Phosphorus, Total	**0.10**	0.005	mg/L	23-Oct-06	
Total Kjeldahl Nitrogen	**0.90**	0.05	"	23-Oct-06	
AWWTP Effluent (0610416-02) Matrix: Water				Sampled: 17-Oct-06	
Ammonia as N	**0.03**	0.02	mg/L	20-Oct-06	
Biochemical Oxygen Demand	**< 5**	5	"	25-Oct-06	
Chemical Oxygen Demand	**40**	5	"	20-Oct-06	
Nitrate+Nitrite as N	**3.51**	0.01	"	20-Oct-06	
pH	**6.9**	0.1	pH Units	19-Oct-06	
Phosphorus, Total	**0.10**	0.005	mg/L	23-Oct-06	
Phosphate, Ortho as P	**0.050**	0.005	"	20-Oct-06	
Total Kjeldahl Nitrogen	**0.86**	0.05	"	23-Oct-06	
Total Suspended Solids	**2**	1	"	19-Oct-06	
AWWTP Influent (0610416-03) Matrix: Water				Sampled: 17-Oct-06	
Phosphorus, Total	**6.03**	0.005	mg/L	23-Oct-06	
Total Kjeldahl Nitrogen	**29.2**	0.05	"	23-Oct-06	
Downstream Okanagan River (0610416-05) Matrix: Water				Sampled: 17-Oct-06	
Phosphorus, Total	**0.02**	0.005	mg/L	23-Oct-06	
Total Kjeldahl Nitrogen	**0.28**	0.05	"	23-Oct-06	
Upstream Okanagan River (0610416-06) Matrix: Water				Sampled: 18-Oct-06	
Phosphorus, Total	**0.01**	0.005	mg/L	23-Oct-06	
Total Kjeldahl Nitrogen	**0.26**	0.05	"	23-Oct-06	
Wed - (0610416-07) Matrix: Water				Sampled: 17-Oct-06	
Phosphorus, Total	**0.10**	0.005	mg/L	23-Oct-06	
Total Kjeldahl Nitrogen	**0.90**	0.05	"	23-Oct-06	

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Kelowna, BC
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ANALYSIS REPORT

CLIENT	City of Penticton, DW & STP	**WORK ORDER #**	0611639
PROJECT NAME	Wastewater	**DATE REPORTED**	05-Dec-06

General Inorganic Parameters

Analyte	Result	RDL	Units	Analyzed	Notes
AWWTP Effluent (0611639-01) Matrix: Water				Sampled: 29-Nov-06	
Ammonia as N	**0.17**	0.02	mg/L	01-Dec-06	
Biochemical Oxygen Demand	**< 5**	5	"	05-Dec-06	
Chemical Oxygen Demand	**24**	5	"	01-Dec-06	
Nitrate+Nitrite as N	**6.06**	0.01	"	30-Nov-06	
pH	**6.7**	0.1	pH Units	30-Nov-06	
Phosphorus, Total	**0.08**	0.01	mg/L	01-Dec-06	
Phosphate, Ortho as P	**0.037**	0.005	"	01-Dec-06	
Total Kjeldahl Nitrogen	**1.14**	0.05	"	01-Dec-06	
Total Suspended Solids	**2**	1	"	01-Dec-06	
AWWTP Effluent Composite (0611639-02) Matrix: Water				Sampled: 29-Nov-06	
Phosphorus, Total	**0.08**	0.01	mg/L	01-Dec-06	
Total Kjeldahl Nitrogen	**0.98**	0.05	"	01-Dec-06	
AWWTP Influent (0611639-03) Matrix: Water				Sampled: 29-Nov-06	
Phosphorus, Total	**14.0**	0.01	mg/L	01-Dec-06	
Total Kjeldahl Nitrogen	**63.0**	0.05	"	01-Dec-06	

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ANALYSIS REPORT

CLIENT	City of Penticton, DW & STP	**WORK ORDER #**	0612477
PROJECT NAME	Wastewater	**DATE REPORTED**	02-Jan-07

General Inorganic Parameters

Analyte	Result	RDL	Units	Analyzed
AWWTP Effluent (0612477-01) Matrix: Water				Sampled: 22-Dec-06
Ammonia as N	**0.45**	0.02	mg/L	27-Dec-06
Biochemical Oxygen Demand	**< 5**	5	"	02-Jan-07
Chemical Oxygen Demand	**35**	5	"	28-Dec-06
Nitrate+Nitrite as N	**3.90**	0.01	"	27-Dec-06
pH	**6.7**	0.1	pH Units	28-Dec-06
Phosphorus, Total	**0.09**	0.01	mg/L	29-Dec-06
Phosphate, Ortho as P	**0.023**	0.005	"	27-Dec-06
Total Kjeldahl Nitrogen	**1.70**	0.05	"	29-Dec-06
Total Suspended Solids	**< 1**	1	"	27-Dec-06
AWWTP Influent (0612477-02) Matrix: Water				Sampled: 22-Dec-06
Phosphorus, Total	**6.13**	0.01	mg/L	29-Dec-06
Total Kjeldahl Nitrogen	**37.0**	0.05	"	29-Dec-06
Coyote Cruises (0612477-03) Matrix: Water				Sampled: 27-Dec-06
Phosphorus, Total	**0.01**	0.01	mg/L	29-Dec-06
Total Kjeldahl Nitrogen	**0.20**	0.05	"	29-Dec-06
Downstream Okanagan River (0612477-04) Matrix: Water				Sampled: 27-Dec-06
Phosphorus, Total	**0.04**	0.01	mg/L	29-Dec-06
Total Kjeldahl Nitrogen	**0.26**	0.05	"	29-Dec-06
Upstream Okanagan River (0612477-05) Matrix: Water				Sampled: 22-Dec-06
Phosphorus, Total	**0.01**	0.01	mg/L	29-Dec-06
Total Kjeldahl Nitrogen	**0.32**	0.05	"	29-Dec-06
Wed (0612477-06) Matrix: Water				Sampled: 22-Dec-06
Phosphorus, Total	**0.09**	0.01	mg/L	29-Dec-06
Total Kjeldahl Nitrogen	**1.72**	0.05	"	29-Dec-06

Appendix B.15.

British Columbia Municipal Population Estimates

British Columbia Municipal Population Estimates - Sorted by Name

Name	Area Type	1996 †	1997	1998	1999	2000	2001†	2002	2003	2004	2005	2006	2005-06 % Chg.
100 Mile House	DM	1,921	1,991	1,999	1,938	1,891	1,815	1,819	1,814	1,828	1,826	1,829	0.16
Abbotsford	C	109,538	113,117	114,460	116,302	118,187	120,500	122,596	123,566	127,192	128,088	128,940	0.67
Alert Bay	VL	637	573	578	589	605	608	622	616	617	611	597	-2.29
Anmore	VL *	997	1,035	1,186	1,299	1,351	1,403	1,443	1,517	1,553	1,673	1,728	3.29
Armstrong	C	4,045	4,170	4,266	4,302	4,388	4,442	4,497	4,506	4,534	4,554	4,531	-0.51
Ashcroft	VL #	1,920	1,963	1,904	1,910	1,904	1,866	1,861	1,849	1,868	1,836	1,825	-0.60
Belcarra	VL	689	705	709	709	713	712	720	726	715	722	727	0.69
Bowen Island	IM *	2,849	2,894	2,946	2,969	3,014	3,085	3,166	3,288	3,353	3,424	3,501	2.25
Burnaby	C	186,712	190,250	191,423	194,337	198,584	202,419	202,478	202,814	203,244	204,551	205,477	0.45
Burns Lake	VL	1,867	1,916	1,932	1,960	1,991	2,027	2,022	2,017	2,035	2,018	2,012	-0.30
Cache Creek	VL *	1,156	1,185	1,135	1,120	1,079	1,102	1,105	1,056	1,145	1,134	1,115	-1.68
Campbell River	C *#	29,982	30,518	30,591	30,120	29,759	29,700	29,683	30,023	30,250	30,806	31,444	2.07
Canal Flats††	VL	--	--	--	--	--	--	--	--	673	680	700	2.94
Castlegar	C *#	7,287	7,283	7,308	7,285	7,299	7,307	7,304	7,266	7,774	7,820	7,863	0.55
Central Saanich	DM	15,125	15,364	15,539	15,710	15,824	16,018	16,153	16,312	16,495	16,819	16,768	-0.30
Chase	VL #	2,541	2,581	2,562	2,551	2,571	2,567	2,544	2,553	2,552	2,568	2,600	1.25
Chetwynd	DM *	3,113	3,026	2,855	2,920	2,816	2,704	2,684	2,576	2,729	2,770	2,866	3.47
Chilliwack	C *#	62,466	63,169	64,051	64,895	65,034	65,671	66,327	67,530	69,193	70,513	72,621	2.99
Clinton	VL *#	756	744	739	689	654	648	649	664	672	654	739	13.00
Coldstream	DM *	9,286	9,428	9,451	9,450	9,478	9,504	9,622	9,817	9,922	10,101	10,320	2.17
Colwood	C	14,383	14,471	14,529	14,439	14,375	14,345	14,520	14,637	14,821	15,122	15,470	2.30
Comox	T *#	11,460	11,566	11,624	11,695	11,660	11,660	11,828	12,118	12,426	12,833	13,008	1.36
Coquitlam	C	105,917	108,762	111,643	113,702	115,290	117,814	119,380	120,083	119,159	119,451	119,319	-0.11
Courtenay	C *#	18,016	18,613	18,809	18,924	18,999	19,103	19,347	20,618	21,124	21,798	22,533	3.37
Cranbrook	C *#	18,831	19,167	19,267	19,460	19,196	19,281	19,587	19,592	19,660	19,771	20,102	1.67
Creston	T *	4,980	5,071	5,081	5,040	5,070	5,004	4,995	5,050	5,053	5,097	5,201	2.04
Cumberland	VL#	2,640	2,741	2,751	2,732	2,722	2,732	2,731	2,785	2,768	2,817	2,881	2.27
Dawson Creek	C *	11,579	11,503	11,499	11,432	11,222	11,224	11,179	11,175	11,320	11,393	11,615	1.95
Delta	DM	99,034	100,349	100,534	100,681	101,051	101,178	101,481	101,948	102,114	102,642	102,939	0.29
Duncan	C*	4,751	4,906	4,908	4,832	4,837	4,903	4,844	4,886	4,884	4,898	5,032	2.74
Elkford	DM	2,831	2,795	2,742	2,701	2,720	2,702	2,698	2,707	2,683	2,670	2,683	0.49
Enderby	C	2,847	2,924	2,921	2,933	2,943	2,941	2,974	3,000	3,023	3,072	3,134	2.02
Esquimalt	DM	16,821	16,900	16,808	16,644	16,653	16,834	16,913	16,945	17,078	17,188	17,407	1.27
Fernie	C *	5,062	4,940	4,801	4,792	4,736	4,812	4,898	4,908	5,014	5,126	5,168	0.82
Fort Nelson	T *#	4,603	4,724	4,619	4,522	4,356	4,371	4,405	4,443	4,706	4,822	4,871	1.02
Fort St. James	DM	2,132	2,127	2,081	2,060	2,057	2,011	1,989	1,991	2,004	2,003	1,976	-1.35
Fort St. John	C *#	15,683	15,859	16,154	16,208	16,486	16,734	16,924	16,959	17,326	17,779	18,270	2.76
Fraser Lake	VL #	1,400	1,352	1,332	1,292	1,336	1,323	1,316	1,284	1,369	1,366	1,354	-0.88
Fruitvale	VL #	2,192	2,188	2,165	2,147	2,152	2,114	2,086	2,113	2,062	2,083	2,039	-2.11
Gibsons	T	3,867	3,910	3,945	3,932	3,970	4,076	4,111	4,190	4,216	4,349	4,458	2.51
Gold River	VL	2,121	1,982	1,814	1,601	1,518	1,418	1,368	1,358	1,436	1,356	1,389	2.43
Golden	T	4,126	4,152	4,102	4,097	4,165	4,195	4,299	4,340	4,385	4,398	4,498	2.27
Grand Forks	C*	4,138	4,268	4,245	4,259	4,208	4,230	4,164	4,169	4,184	4,200	4,159	-0.98
Granisle	VL	461	459	438	425	390	368	366	354	367	353	352	-0.28
Greenwood	C	811	803	770	730	716	695	688	675	666	668	656	-1.80
Harrison Hot Springs	VL #	930	1,115	1,185	1,261	1,324	1,402	1,451	1,508	1,547	1,595	1,609	0.88
Hazelton	VL	363	361	370	368	362	360	362	353	355	341	362	6.16
Highlands	DM	1,478	1,545	1,587	1,639	1,694	1,747	1,772	1,798	1,967	2,114	2,130	0.76
Hope	DM	6,468	6,578	6,573	6,553	6,491	6,455	6,473	6,519	6,575	6,590	6,667	1.17
Houston	DM	4,098	4,219	4,193	3,988	3,870	3,733	3,613	3,600	3,849	3,732	3,796	1.71
Hudson's Hope	DM	1,163	1,151	1,118	1,109	1,075	1,084	1,071	1,088	1,159	1,157	1,159	0.17
Invermere	DM #	2,786	2,899	2,939	2,958	2,961	2,983	3,017	3,126	3,149	3,256	3,470	6.57
Kamloops	C *	79,385	80,333	80,352	80,177	80,431	80,656	81,259	81,398	81,916	82,703	84,064	1.65
Kaslo	VL	1,099	1,110	1,109	1,097	1,081	1,077	1,059	1,068	1,071	1,075	1,087	1.12
Kelowna	C *#	92,859	94,989	97,176	97,865	99,276	100,495	102,294	104,837	105,902	109,477	112,775	3.01
Kent	DM	5,039	5,032	5,062	5,052	5,112	5,141	5,187	5,278	5,525	5,679	5,756	1.36
Keremeos	VL	1,204	1,209	1,213	1,230	1,234	1,249	1,274	1,283	1,283	1,315	1,369	4.11
Kimberley	C	6,983	6,918	6,816	6,768	6,767	6,767	6,774	6,802	6,946	7,048	7,147	1.40
Kitimat	DM	11,564	11,560	11,336	11,163	10,881	10,733	10,639	10,575	10,725	10,586	10,510	-0.72
Ladysmith	T *#	6,691	6,786	6,823	6,858	6,821	6,874	6,954	7,067	7,130	7,291	7,460	2.32
Lake Country	DM	9,329	9,575	9,593	9,621	9,488	9,672	9,743	9,919	10,091	10,366	10,668	2.91
Lake Cowichan	T *	2,960	2,978	2,962	2,930	2,899	2,950	2,977	2,967	2,986	3,029	3,118	2.94
Langford	C #	18,206	18,839	19,026	19,175	19,450	19,660	20,039	20,516	20,879	21,616	22,229	2.84
Langley	C	23,437	23,763	24,126	24,264	24,413	24,673	24,685	24,924	24,982	25,712	25,789	0.30
Langley, Township of	DM	83,192	87,437	88,857	89,509	90,001	90,685	91,146	92,609	94,776	97,113	99,537	2.50
Lantzville ††	DM	--	--	--	--	--	--	--	3,538	3,763	3,819	3,807	-0.31
Lillooet	DM *#	3,001	3,013	2,962	2,901	2,886	2,859	2,793	2,755	2,821	2,755	2,779	0.87
Lions Bay	VL *	1,395	1,392	1,390	1,383	1,453	1,439	1,429	1,438	1,421	1,421	1,418	-0.21
Logan Lake	DM *	2,578	2,568	2,509	2,405	2,350	2,280	2,286	2,318	2,321	2,313	2,307	-0.26
Lumby	VL	1,752	1,801	1,757	1,704	1,716	1,689	1,698	1,683	1,703	1,738	1,766	1.61
Lytton	VL	335	333	331	328	330	333	339	333	334	336	330	-1.79

British Columbia Municipal Population Estimates - Sorted by Name

Name	Area Type	1996 †	1997	1998	1999	2000	2001†	2002	2003	2004	2005	2006	2005-06 % Chg.
Mackenzie	DM	6,257	6,152	5,965	5,794	5,660	5,433	5,437	5,389	5,458	5,453	5,452	-0.02
Maple Ridge	DM	58,340	60,156	61,250	62,552	64,144	65,922	67,777	69,438	71,037	73,748	75,783	2.76
Masset	VL	1,349	1,017	947	1,031	1,021	966	955	965	967	967	982	1.55
McBride	VL	768	789	761	738	742	742	733	725	743	752	745	-0.93
Merritt	C *#	7,924	7,880	7,820	7,639	7,520	7,396	7,408	7,418	7,516	7,561	7,595	0.45
Metchosin	DM	4,889	4,928	4,958	5,013	5,036	5,070	5,105	5,218	5,258	5,300	5,312	0.23
Midway	VL	710	705	685	680	672	666	658	653	641	630	629	-0.16
Mission	DM	31,683	32,024	32,282	32,304	32,403	32,638	32,876	33,344	34,061	34,738	35,262	1.51
Montrose	VL #	1,177	1,166	1,159	1,146	1,120	1,114	1,115	1,113	1,090	1,086	1,088	0.18
Nakusp	VL #	1,803	1,795	1,823	1,773	1,762	1,772	1,783	1,789	1,789	1,779	1,800	1.18
Nanaimo	C *#	72,804	74,474	74,838	75,150	75,355	76,185	76,784	77,786	78,480	79,616	80,949	1.67
Nelson	C #	9,948	9,883	9,655	9,609	9,555	9,703	9,641	9,778	9,810	9,796	9,923	1.30
New Denver	VL #	599	596	583	585	580	561	557	561	550	549	556	1.28
New Hazelton	DM	857	857	822	795	809	783	790	770	735	758	729	-3.83
New Westminster	C	51,488	52,804	54,445	55,669	57,156	57,044	57,241	57,924	57,892	57,572	57,645	0.13
North Cowichan	DM #	26,222	26,549	26,802	27,051	27,144	27,290	27,519	27,742	28,140	28,516	29,118	2.11
North Saanich	DM	10,750	10,820	10,861	10,858	10,838	10,890	10,959	11,072	11,132	11,273	11,258	-0.13
North Vancouver	DM	83,418	84,543	85,046	85,293	85,454	85,905	86,138	87,014	86,868	87,072	87,518	0.51
North Vancouver	C	43,268	43,725	44,550	44,938	45,489	46,236	46,977	46,496	46,831	48,037	49,248	2.52
Oak Bay	DM	18,456	18,579	18,569	18,559	18,488	18,573	18,535	18,456	18,406	18,311	18,059	-1.38
Oliver	T #	4,425	4,468	4,437	4,439	4,405	4,409	4,441	4,426	4,378	4,379	4,369	-0.23
Osoyoos	T *	4,152	4,298	4,384	4,390	4,440	4,483	4,507	4,627	4,611	4,800	4,963	3.40
Parksville	C *	9,796	10,081	10,203	10,339	10,592	10,773	10,866	11,081	11,275	11,707	12,081	3.19
Peachland	DM	4,675	4,772	4,738	4,780	4,796	4,857	4,986	5,053	5,090	5,230	5,369	2.66
Pemberton	VL *#	897	1,170	1,328	1,621	1,603	1,708	1,872	2,025	2,210	2,517	2,563	1.83
Penticton	C	32,097	32,360	32,349	32,371	32,318	32,340	32,531	32,912	32,955	33,057	34,669	4.88
Pitt Meadows	DM	13,956	14,463	14,551	14,902	15,018	15,311	15,645	15,716	16,143	16,780	17,532	4.48
Port Alberni	C *#	19,163	19,268	19,002	18,707	18,530	18,516	18,456	18,484	18,610	18,686	18,790	0.56
Port Alice	VL	1,384	1,353	1,306	1,243	1,180	1,175	1,171	1,126	1,206	1,128	1,131	0.27
Port Clements	VL	582	588	582	538	520	538	531	527	534	533	517	-3.00
Port Coquitlam	C	48,590	50,321	51,234	51,841	52,361	53,497	54,841	55,164	55,525	55,666	55,712	0.08
Port Edward	DM	731	781	754	739	716	688	671	667	659	653	629	-3.68
Port Hardy	DM	5,501	5,337	5,130	4,942	4,793	4,774	4,726	4,613	4,798	4,596	4,585	-0.24
Port McNeill	T *#	3,046	3,082	3,043	3,024	2,961	2,944	2,910	2,886	2,908	2,927	2,929	0.07
Port Moody	C	21,689	22,806	23,331	24,106	24,292	24,854	25,274	25,884	26,849	28,639	30,120	5.17
Pouce Coupe	VL	928	916	920	891	861	869	861	862	864	887	910	2.59
Powell River	C #	13,610	13,882	13,737	13,667	13,558	13,550	13,557	13,590	13,716	13,830	14,035	1.48
Prince George	C	78,239	78,426	77,368	76,990	77,018	75,568	75,286	76,643	77,827	77,151	77,343	0.25
Prince Rupert	C	17,397	17,221	16,417	15,930	15,643	15,282	15,135	14,962	15,060	14,972	15,281	2.06
Princeton	T	2,926	2,940	2,889	2,874	2,788	2,724	2,741	2,753	2,691	2,687	2,687	0.00
Qualicum Beach	T *#	6,934	7,047	7,183	7,138	7,203	7,224	7,292	7,394	7,403	8,806	8,899	1.06
Quesnel	C *#	8,806	8,970	8,856	10,238	10,367	10,481	10,407	10,337	10,445	10,485	10,561	0.72
Radium Hot Springs	VL #	549	559	542	548	573	608	643	700	749	813	921	13.28
Revelstoke	C #	8,356	8,286	8,123	7,985	7,888	7,827	7,913	7,888	7,932	7,963	8,029	0.83
Richmond	C *	154,695	159,597	163,233	166,219	168,280	171,517	172,547	173,629	174,364	175,791	176,599	0.46
Rossland	C *#	3,942	3,887	3,840	3,856	3,811	3,804	3,775	3,765	3,690	3,724	3,653	-1.91
Saanich	DM	105,252	106,663	107,029	107,373	107,402	108,179	108,620	109,598	109,873	110,382	110,737	0.32
Salmo	VL	1,245	1,244	1,248	1,215	1,195	1,169	1,178	1,157	1,140	1,133	1,129	-0.35
Salmon Arm	C #	15,181	15,552	15,796	15,854	15,824	15,873	15,921	16,199	16,510	16,798	17,150	2.10
Sayward	VL	456	457	436	409	400	396	398	403	404	407	410	0.74
Sechelt	DM	7,596	7,879	8,009	8,040	8,044	8,113	8,240	8,395	8,511	8,899	9,224	3.65
Sechelt Ind Gov Dist	IGD	36	36	36	36	37	38	38	38	38	38	38	0.00
Sechelt Ind Gov Dist	IGD	763	816	819	838	811	829	833	828	830	850	862	1.41
Sicamous	DM	2,925	2,935	3,014	2,972	2,880	2,839	2,889	2,903	3,022	3,043	3,192	4.90
Sidney	T	11,062	11,108	11,318	11,350	11,332	11,404	11,420	11,528	11,525	11,861	11,849	-0.10
Silverton	VL	249	249	242	228	235	232	228	235	231	230	224	-2.61
Slocan	VL	347	350	355	348	348	351	349	363	361	359	353	-1.67
Smithers	T #	5,856	5,869	5,835	5,766	5,738	5,651	5,675	5,589	5,652	5,508	5,575	1.22
Sooke	DM *#	8,783	8,977	9,052	9,125	9,119	9,116	9,245	9,432	9,756	10,116	10,436	3.16
Spallumcheen	DM	5,512	5,533	5,502	5,438	5,383	5,358	5,387	5,412	5,648	5,706	5,729	0.40
Sparwood	DM	4,136	4,034	4,053	4,020	3,965	3,978	4,007	4,008	3,998	3,972	4,013	1.03
Squamish	DM #	14,549	14,911	14,999	14,909	14,778	14,871	14,920	15,159	15,431	15,724	16,199	3.02
Stewart	DM	893	829	732	698	692	690	698	710	717	695	670	-3.60
Summerland	DM *#	10,927	11,066	11,041	11,070	11,101	11,181	11,225	11,332	11,285	11,404	11,443	0.34
Surrey	C	316,655	328,933	338,003	345,446	353,340	363,004	372,581	379,560	387,162	395,664	402,150	1.64
Tahsis	VL	979	913	795	726	680	626	584	567	594	577	562	-2.60
Taylor	DM	1,075	1,077	1,100	1,162	1,190	1,193	1,234	1,275	1,291	1,346	1,380	2.53
Telkwa	VL *#	1,241	1,339	1,403	1,420	1,418	1,431	1,423	1,430	1,421	1,439	1,443	0.28
Terrace	C *	13,298	13,417	13,266	13,060	12,849	12,639	12,525	12,542	12,599	12,554	12,660	0.84
Tofino	DM	1,220	1,272	1,344	1,422	1,461	1,530	1,565	1,675	1,716	1,846	1,906	3.25
Trail	C *#	7,963	7,817	7,878	7,851	8,040	7,905	7,992	7,946	7,891	7,939	7,744	-2.46

British Columbia Municipal Population Estimates - Sorted by Name

Name	Area Type	1996 †	1997	1998	1999	2000	2001†	2002	2003	2004	2005	2006	2005-06 % Chg.
Tumbler Ridge	DM	3,931	3,744	3,295	2,614	2,012	1,932	2,418	2,492	2,464	2,526	2,698	6.81
Ucluelet	DM *	1,728	1,698	1,656	1,643	1,657	1,627	1,634	1,675	1,852	1,899	1,978	4.16
Valemount	VL #	1,354	1,360	1,352	1,299	1,271	1,247	1,265	1,249	1,247	1,250	1,388	11.04
Vancouver	C	536,511	545,373	550,433	556,863	563,114	569,473	572,089	576,232	579,717	583,191	587,891	0.81
Vanderhoof	DM	4,580	4,666	4,617	4,629	4,613	4,582	4,592	4,579	4,662	4,727	4,799	1.52
Vernon	C *#	32,993	33,705	34,278	34,277	34,657	34,957	35,158	35,554	35,643	36,228	36,785	1.54
Victoria	C	76,677	76,976	76,738	76,520	76,515	77,362	77,472	77,433	77,769	78,296	78,659	0.46
View Royal	T	6,691	6,890	6,984	7,234	7,411	7,587	7,780	7,907	7,970	8,255	8,375	1.45
Village of Queen Charlotte††	VL	--	--	--	--	--	--	--	--	--	--	1,042	
Warfield	VL	1,854	1,836	1,845	1,830	1,839	1,815	1,811	1,775	1,763	1,762	1,766	0.23
Wells	DM *#	271	267	262	246	248	245	246	241	262	248	246	-0.81
West Vancouver	DM	42,269	42,792	42,929	43,025	43,027	43,229	43,290	43,454	43,356	44,143	44,272	0.29
Whistler	DM	7,592	8,294	8,843	8,965	9,094	9,283	9,502	9,750	9,828	9,360	9,595	2.51
White Rock	C	17,834	18,373	18,340	18,623	18,748	19,047	19,153	19,056	19,370	19,699	19,545	-0.78
Williams Lake	C *#	10,895	11,028	11,098	11,612	11,725	11,639	11,625	11,578	11,865	11,871	11,961	0.76
Zeballos	VL	242	243	227	223	244	234	227	231	232	228	231	1.32
Total Incorporated Mun.		**3,355,267**	**3,422,770**	**3,456,084**	**3,486,515**	**3,516,216**	**3,555,227**	**3,586,730**	**3,624,993**	**3,662,940**	**3,708,694**	**3,754,663**	**1.24**
Total British Columbia		**3,874,276**	**3,948,544**	**3,983,077**	**4,011,342**	**4,039,198**	**4,078,447**	**4,115,413**	**4,155,370**	**4,203,315**	**4,257,833**	**4,310,452**	**1.24**

Source:

Population Section, BC Stats,
Ministry of Labour & Citizens' Services,
Government of British Columbia.
December 2006.

Notes:

All figures correspond to municipal boundaries as of July 1st of the year stated.
All figures are as of July 1st of the year stated.
C = City, T = Town, VL = Village, DM = District Municipality, IM = Island Municipality, IGD = Indian Government District.
** Denotes a boundary change between July 1, 1996 and June 30, 2001.*
 # Denotes a boundary or status change between July 1, 2001 and June 30, 2006.
† 1996 and 2001 Census year figures include an estimate of net census undercount.
†† New incorporations Lanzville on June 25, 2003, Canal Flats on June 29, 2004 and Village of Queen Charlotte on Dec 7, 2005
Note that the Sechelt Indian Government District is split between two Regional Districts, thus the two table occurences here.

Appendix C

Operational Certificate PE 12212

MINISTRY OF ENVIRONMENT,
LANDS AND PARKS

OPERATIONAL CERTIFICATE

PE 12212

Under the Provisions of the Waste Management Act

CITY OF PENTICTON

171 Main Street

Penticton, British Columbia

V2A 5A9

is authorized to discharge effluent from a municipal sewage collection and treatment system located at Penticton, British Columbia, to the Okanagan River, and reclaimed wastewater to the ground by irrigation, and is further authorized to discharge sludge from this same system to an authorized compost facility, subject to the conditions listed below. Contravention of any of these conditions is a violation of the Waste Management Act and may result in prosecution.

1. AUTHORIZED DISCHARGES

1.1 Location of Discharge

1.1.1 The location of the sewage treatment plant is legally described as Lot 1, Plan 27543, District Lot 15, S.D.Y.D.

1.1.2 The location of the discharge to Okanagan River Channel is legally described as the Plan of Statutory Right of Way over unsurveyed Crown Land (being the bed of Okanagan River to the West of RPA-1189, Lot 13, S.D.Y.D.) approximately as shown on Site Plan A.

1.1.3 The location of the area where reclaimed wastewater may be irrigated is described generally as the Penticton area. Actual authorization for a specific parcel of land to be irrigated is contingent upon the submission of a "Plan of Irrigation", prepared by a suitably qualified person, of that particular parcel to the Regional Waste Manager and his approval obtained in writing. Reclaimed wastewater may be irrigated on the fenced area of the sewage treatment plant grounds.

1.1.4 The management of sludge produced by the subject operation at a site remote from the treatment plant site is authorized under a separate permit.

1.2 Source of Discharge

The location of the sewage collection system from which the wastewater originates is generally described as the City of Penticton and surrounding area.

1.3 Discharge Quantity

1.3.1 The maximum and average authorized rates of effluent discharge from the sewage treatment plant to the Okanagan River Channel, in megalitres/day is as follows:

Maximum flow in megalitres/day

18.2 ML/day

Flow in megalitres/day averaged over a calendar month:

Year	Average Flow	Maximum Flow
1995	12.5	13.5
1996	12.8	13.8
1997	13.1	14.1
1998	13.4	14.4
1999	13.7	14.7
2000	14.0	15.0
2001	14.3	15.3
2002	14.6	15.6
2003	14.9	15.9
2004	15.2	16.2
2005	15.5	16.5

The reference number (S.E.A.M. site number) for this discharge is E0500000.

1.3.2 There is no maximum authorized rate of reclaimed wastewater discharge for beneficial use as irrigation water. It is recognized that the reclaimed wastewater irrigation only occurs during the spring, summer and fall months, a period of about 6 months, and therefore for the purpose of Permit fees a flow of 1.0 ML (1,000 m^3) per day shall be used for the discharge to land by irrigation and the average monthly maximum flow less the irrigation flow in m^3 per day be used for the discharge to the Okanagan River.

1.4 Authorized Works

The works authorized are a sewage collection system, a biological nutrient removal tertiary treatment plant with backup chemical phosphorus removal facilities, fermentation units, anaerobic digesters, effluent storage reservoirs, chlorination and dechlorination facilities, sludge dewatering facilities, reclaimed wastewater irrigation facilities, an effluent outfall to Okanagan River Channel, and, related appurtenances approximately as shown on the attached Site Plan A.

1.5 Wastewater Discharge

1.5.1 The characteristics of the effluent discharged from the sewage treatment plant to the Okanagan River Channel shall be equivalent to or better than:

5 Day Biochemical Oxygen Demand	- 10 mg/L
Total Suspended Solids	- 10 mg/L
Total Phosphorus as P	
Not to exceed	- 2.0 mg/L
99 percentile	- 1.5 mg/L
90 percentile	- 1.0 mg/L
Annual Average	- 0.25 mg/L
Level to strive for	- 0.01 mg/L

The Level to strive for is the Okanagan Lake background level. The percentile values given relate to the daily values. eg: 99 percentile means that 99 percent of all daily values throughout the year are not to exceed 1.5 mg/L Total Phosphorus as P.

Total Nitrogen as N - 6.0 mg/L

1.5.2 The characteristics of the reclaimed wastewater discharged by irrigation, for the purposes of permit fee calculations the following discharge factors have been assumed:

5 Day Biochemical Oxygen Demand	- 10 mg/L
Total Suspended Solids	- 10 mg/L

2. GENERAL REQUIREMENTS

2.1 Maintenance of Works, Emergency Procedures and Noncompliance Reporting

Inspect the pollution control works regularly and maintain them in good working order. In the event of an emergency or any condition which prevents continuing operation of the approved method of pollution control or results in noncompliance with the terms and conditions of this permit, immediately notify the Regional Waste Manager and take appropriate remedial action.

2.2 Bypasses

The discharge of effluent which has bypassed the designated treatment works is prohibited, unless the consent of the Regional Waste Manager is obtained and confirmed in writing.

2.3 Process Modifications

Notify the Regional Waste Manager, and his written consent obtained, prior to implementing changes to any process that may affect the quality and/or quantity of the discharge.

2.4 Plans - New Works

2.4.1 Plans of modifications and/or extensions to the existing works shall be signed and sealed by a Professional Engineer licensed to practice in the Province of British Columbia.

2.4.2 Plans for modifications of and/or extensions to the existing Reclaimed Wastewater Irrigation System shall be signed and sealed by a Professional Engineer or Professional Agrologist suitably qualified and licensed to practice in the Province of British Columbia, or as otherwise acceptable to the Regional Waste Manager.

2.4.3 Plans and specifications of any proposed modifications or additions to works authorized in this Operational Certificate, with the exception of the sewage collection system, shall be submitted to the Regional Waste Manager, and his written consent obtained before construction commences. The works shall be constructed in accordance with such plans.

2.4.4 Retain a copy of all "as built", plans of modifications and/or extensions to the sewage collection system for perusal by the Regional Waste Manager, or his designate, upon request.

2.4.5 Design and construct the irrigation works in accordance with best current agricultural practice and the "Pollution Control Guidelines for Municipal Effluent Application to Land", dated January 1983, and any amendments thereto, issued by the Ministry of Environment of the Province of British Columbia.

3. GENERAL REQUIREMENTS-ALL DISCHARGES

3.1 Operation and Maintenance

3.1.1 Develop and maintain both an Operational and Maintenance Manual for the sewage collection, sewage treatment, reclaimed wastewater utilization and wastewater disposal works. A copy of the Operational and Maintenance Manuals shall be retained at the treatment plant for inspection, by the Regional Waste Manager or his designate.

3.1.2 Operate and maintain a system of preventative maintenance for the sewage collection, sewage treatment, effluent utilization and effluent disposal works.

3.2 Facility Classification

Provide and maintain the wastewater treatment facility authorized in Section 1.4 of the Permit (the facility) classified by the "British Columbia Water and Wastewater Operators Certification Program Society" (BCWWOCPS) as a Level IV facility.

3.3 Operator Certification

3.3.1 Ensure all operators of the facility shall be certified by the Program to a Class I level, as a minimum, by **December 1, 1994**.

3.3.2 All operators in training (OIT) working at the facility classified by the BCWWOCPS at Level II or higher shall be required to successfully pass an OIT examination within three (3) months of commencement of employment at the facility. The OIT certificate shall be valid for fifteen (15) months from the date of issue. Prior to the expiry date of the OIT certificate, but not sooner than twelve (12) months from the date when the OIT commenced facility operation, the OIT shall successfully complete a Class I certification examination in order to continue to operate at the facility.

3.3.3 Designate at least one operator to be the "Chief Operator" of the facility by **December 1, 1996**. The "Chief Operator" shall be certified at a Class II level, at a minimum.

After **December 1, 1996**, no person shall have "Direct Responsible Charge", as defined by the BCWWOCPS, of a municipal wastewater treatment facility classified at Level II or higher unless they possess a valid operator's certificate not more than one level below the classification level of the facility.

3.3.4 Designate a "Chief Operator", certified at a Class IV level by **December 1, 1998**.

3.4 Water Management and Conservation

Establish a water management and conservation program to encourage a reduction in the volume of domestic, industrial and commercial wastewaters discharged to the sewage collection system.

3.5 Sewage Collection System - Infiltration, Inflow and Cross Connections

Inspect and maintain the Sewage Collection System works so as to minimize the possibility of cross connections between the storm sewer and the sanitary sewer systems, to minimize infiltration of groundwater, to minimize inflow of water from basement sump pumps and roof drains, and minimize exfiltration of the collected sewage from the collection system to the ground.

3.6 Sanitary Sewer Bylaw

Subject to being declared a Sewage Control Area under Section 17 of the Waste Management Act, and in order to minimize the potential effect of heavy metals or other toxic materials in the effluent and/or sludge, the City shall prepare, or review and if necessary update, and implement a Sanitary Sewer Bylaw to regulate the input of such wastes to the sewage collection. The installation of devices to process household putrescible waste for disposal to the sewage collection system should be prohibited. The City is responsible for enacting a suitable sampling and monitoring program in support of this bylaw.

The City is strongly advised to seek the active cooperation of the public through a proactive public education program.

3.7 Contingency Plan

Prepare a Contingency Plan that will address the appropriate course of action to be taken in any particular preconceived emergency situation. The plan shall include toxic substances in plant influent, chlorine and sulphur dioxide leaks or spills and any potential point of concern in the collection, treatment and disposal systems. Attention is to be given to public safety and the protection of the environment. The plan is to be continually updated as necessary to reflect the current operation. A copy of the Contingency Plan shall be forwarded to the Regional Waste Manager on or before December 31, 1995.

3.8 Sludge Management

The management of sludge produced by the subject operation at a site remote from the treatment plant site is authorized under a separate permit.

3.9 Odours

Provide measures to control odour from the sewage treatment plant operation. Should any aspect of the operation give rise to objectional odours, appropriate remedial measures may be required by the Regional Waste Manager.

3.10 Fencing

Erect and maintain a fence around the sewage treatment plant and such other areas as required by the Regional Waste Manager. The height and type of fencing shall meet the approval of the Regional Waste Manager.

3.11 Signage

3.11.1A suitable sign erected at the main entrance to the treatment plant shall have the appropriate emergency contact person(s) and phone numbers for use by the general public and others.

3.11.2Prominent "NO TRESPASSING", signs shall be erected around agricultural and silvicultural sites irrigated with reclaimed wastewater, warning persons of the possible health hazard during the irrigation season and advising that the water used for irrigation is NOT POTABLE. The wording shall be in language or symbols readily comprehensible by the general public. eg. "NO TRESPASSING - RECLAIMED WASTEWATER - DO NOT DRINK"

4. GENERAL REQUIREMENTS - OUTFALL

4.1 Disinfection - Chlorination\Dechlorination

4.1.1 If chlorination is used for disinfection, maintain a total chlorine residual of 0.5 mg/L immediately prior to dechlorination. Operate the dechlorination facilities such that there is a total chlorine residual of 0.0 mg/L after dechlorination and prior to the discharge of the effluent to the Okanagan River Channel.

4.1.2 If ultraviolet disinfection is to be utilized, two banks of lamps in series are to be utilized. The fecal coliform level for effluent discharge to the Okanagan River Channel is not to exceed 50 MPN per 100 ml.

4.2 Posting of Outfall diffuser

Erect a sign along the alignment of the outfall diffuser, above high water mark advising of the presence of an underwater pipe. The sign shall have lettering at least 100 millimetres high and be clearly visible.

5. GENERAL REQUIREMENTS - EFFLUENT IRRIGATION

5.1 Disinfection - Chlorination/Dechlorination

5.1.1 Maintain a total chlorine residual of at least 1.0 mg/L at all times in the reclaimed wastewater discharging from the chlorination facility to the irrigation system.

5.1.2 Reclaimed wastewater utilized for irrigation shall conform to the, "Health an Safety Criteria for the use of Reclaimed Wastewater", developed by the B.C. Ministry of Health. Fecal coliforms shall not exceed 200 MPN per 100 mL for agricultural, silvicultural and low public use lands, or exceed 2.2 MPN per 100 mL for high public use lands.

5.2 Annual Notification of Intention to Irrigate

5.2.1 Notify the Regional Waste Manager at least one week prior to the anticipated annual commencement of the irrigation season.

5.2.2 The authorized discharge period for irrigation is during the period April 1 to October 31, inclusive.

5.2.3 With the written authorization of the Regional Waste Manager, the irrigation schedule may be extended on a weekly basis beyond these limits. Any extension will be considered only upon receipt of a substantiated written request.

5.3 Buffer Zones

5.3.1 The requirement for formal buffer zones surrounding lands irrigated with reclaimed wastewater is no longer in effect, however, a buffer zone may be specified by the Regional Waste Manager.

5.3.2 Reclaimed wastewater applied by irrigation shall not be applied to the ground any closer than 15 metres from the edge of flowing streams or bodies of water, unless specifically authorized by the Regional Waste Manager. The Penticton Golf and Country Club, the Pollution Control Centre grounds, City parklands and the area known as the walking and biking path of the Channel Parkway are specifically exempted.

5.3.3 There shall be no reclaimed wastewater irrigated within 30 metres of any well or reservoir for domestic water supply.

5.3.4 To preclude conflict between public use and effluent irrigation, high public use areas are to be irrigated either during night time hours when the public is not using the property in question or public access to the area being irrigated is to be restricted whilst irrigation with effluent is occurring.

5.4 Surface Runoff

There shall be no surface runoff of irrigated reclaimed wastewater from the irrigated lands.

5.5 Surfacing Reclaimed Wastewater

Irrigation shall be managed in such a fashion as to preclude surfacing of irrigation tail water down slope of the point of irrigation.

5.6 Spray Irrigation Drift

The reclaimed wastewater irrigation system shall be managed in such a fashion as to preclude aerosol drift from leaving the irrigated lands.

5.7 Irrigation Rates

5.7.1 Irrigation rates shall not exceed the rates given in "B.C. Sprinkler Irrigation Manual", dated 1989, prepared by the B.C. Ministry of Agriculture and Fisheries.

5.7.2 The maximum ground slope of irrigated areas shall not exceed 20% without the written consent of the Regional Waste Manager.

5.7.3 Soils of irrigated agricultural lands shall be monitored periodically to prevent saturation, erosion, and instability by a suitably qualified professional.

5.8 Agricultural Products Lag Time

5.8.1 A three day lag time is required before uninspected livestock intended for human consumption are permitted on areas irrigated with reclaimed wastewater. No lag time is required if livestock are subjected to the federal meat inspection program.

5.8.2 A six day lag time is required before dairy cattle are permitted in areas irrigated with reclaimed wastewater.

5.8.3 A three day lag time, after irrigation has ceased, is required before a crop intended for animal feed is harvested.

6. MONITORING REQUIREMENTS

6.1 Influent Sampling Program

6.1.1 Install and maintain a suitable sampling facility and obtain a grab sample of the plant influent once each month for check analysis of nutrient levels (a proportional continuous sampler may be used). Proper care should be taken in sampling, storing and transporting the samples to adequately control temperature and avoid contamination, breakage, etc.

6.1.2 Obtain analyses of the influent sample for the following:

total phosphorus and ortho phosphorus, expressed as P in mg/L;
total nitrogen expressed as N in mg/L;
pH.

6.1.3 Analyses are to be carried out in accordance with procedures described in the second edition of "A Laboratory Manual for the Chemical Analysis of Waters, Wastewaters, Sediments and Biological Materials, (March 1994 Permittee Edition)", or by suitable alternative procedures as authorized by the Regional Waste Manager.

The above manual may be purchased from Queens Printer Publications Centre, 2nd Floor, 563 Superior Street, Victoria, B.C., V8V 4R6, 1-800-663-6105. The manual may also be reviewed at any Environmental Protection Program Office.

6.2 Effluent Sampling Program

6.2.1 Install and maintain a suitable sampling facility and obtain a grab sample of the effluent once daily during the period of maximum daily flow for subsequent in-house analysis, and **if the laboratory at the Penticton Pollution Control Centre is NOT accredited under the EDQA program then for the nutrients required under this Operational Certificate,** once each month for check analysis of nutrient levels by a suitably accredited independent laboratory, (a proportional continuous sampler may be used). Proper care should be taken in sampling, storing and transporting the samples to adequately control temperature and avoid contamination, breakage, etc.

6.2.2 Obtain analyses of the effluent sample for the following:

Total suspended solids (non-filterable residue), (monthly analysis), mg/L;
5-day Biochemical Oxygen Demand (B.O.D.), (monthly analysis), mg/L;
Chemical Oxygen Demand (C.O.D.), (daily analysis), mg/L;
Total and fecal coliforms (weekly analysis, increasing to daily if an analysis of over 50 MPN Fecal Coliform is recorded during the summer season), M.P.N./100 ml;
Total phosphorus (weekly), ortho phosphorus, (daily analysis), all expressed as mg/L P;
Total nitrogen, ammonia nitrogen, nitrate nitrogen, (weekly analysis), all expressed as mg/L N;
Ph, (daily analysis).

6.2.3 Occasional full chemical analysis of the main cations and anions and other characteristics may be required by the Regional Waste Manager.

6.2.4 Analyses are to be carried out in accordance with procedures described in the second edition of "A Laboratory Manual for the Chemical Analysis of Waters, Wastewaters, Sediments and Biological Materials, (March 1994 Permittee Edition)", or by suitable alternative procedures as authorized by the Regional Waste Manager.

The above manual may be purchased from Queens Printer Publications Centre, 2nd Floor, 563 Superior Street, Victoria, B.C., V8V 4R6, 1-800-663-

6105. The manual may also be reviewed at any Environmental Protection Program Office.

6.2.5 Provide and maintain a suitable flow measuring device and record once per day the effluent volume discharged to the Okanagan River and the volume utilized for irrigation over a 24-hour period. Record the flows for each calendar month and for each calendar year.

6.2.6 Sampling and flow measurement shall be carried out in accordance with the procedures described in "Field Criteria for Sampling Effluents and Receiving Waters, April 1989, 17 pp., or by other suitable alternative procedures as authorized by the Regional Waste Manager.

6.3 Surface Water Impact Monitoring Program

A surface water impact monitoring program is required, that is to consist of one set of samples taken monthly at hydrologically appropriate locations one upstream of the effluent outfall diffuser and one downstream of the effluent outfall diffuser. Site locations and sampling procedures are to be approved in writing, by the Regional Waste Manager.

6.3.1 Obtain analyses of the surface water sample for the following:

Total suspended solids (non-filterable residue), mg/L;
Total and fecal coliforms, M.P.N./100 ml;
Total phosphorus, and ortho phosphorus, expressed as mg/L P;
Total nitrogen, ammonia nitrogen, nitrate nitrogen, all expressed as mg/L N;
Ph.

6.3.2 Occasional full chemical analysis of the main cations and anions and other characteristics may be required by the Regional Waste Manager.

6.3.3 Analyses are to be carried out in accordance with procedures described in the second edition of "A Laboratory Manual for the Chemical Analysis of Waters, Wastewaters, Sediments and Biological Materials, (March 1994 Permittee Edition)", or by suitable alternative procedures as authorized by the Regional Waste Manager.

The above manual may be purchased from Queens Printer Publications Centre, 2nd Floor, 563 Superior Street, Victoria, B.C., V8V 4R6, 1-800-663-6105. The manual may also be reviewed at any Environmental Protection Program Office.

6.3.4 Sampling shall be carried out in accordance with the procedures described in "Field Criteria for Sampling Effluents and Receiving Waters, April 1989, 17 pp., or by other suitable alternative procedures as authorized by the Regional Waste Manager.

6.4 Sludge Sampling Program

6.4.1 The sludge sampling and monitoring program is covered under Permit PE 12221 issued to the City of Penticton for a sludge composting operation.

6.5 Groundwater Monitoring Program

A groundwater monitoring program, prepared by a suitably qualified hydrogeologist, licensed to practise in the Province of British Columbia, may be required be submitted to the Regional Waste Manager, for written authorization to proceed, prior to the commencement of irrigation of any lands other than the plant grounds. The program shall be designed to establish with acceptable scientific accuracy, the groundwater flow pattern and nutrient removal capability of the soil, to ensure reasonable notice of impending high phosphorus or nitrate levels that may adversely affect the shoreline waters of Skaha Lake or domestic groundwater wells. The sampling, measurement frequency and analyses shall be conducted in accord with the groundwater monitoring program upon receipt of written authorization to proceed, duly signed by the Regional Waste Manager.

6.6 Quality Assurance

Produce within 60 days of the request of the Regional Waste Manager, 'Laboratory Quality Protocols and Quality Assurance Criteria' acceptable to the Regional Waste Manager. The "Laboratory Quality Protocols' shall include the procedures used to assess precision, accuracy, and blank quality, including frequency of application of those procedures, the procedures for sample handling (e.g. preservation, hold times), and corrective measures to be initiated when deficiencies are indicated. The 'Quality Assurance Criteria' shall include the acceptance criteria for accuracy (based on recoveries for reference samples/spikes), for precision (based on deviation in field and lab duplicates), and method blanks (designed to indicate false positive).

Certify that all data required under subsections 6.1, 6.2, 6.3, 6.4 and 6.5 of this permit are produced in accordance with the 'Laboratory Quality Protocols' and have met the Quality Assurance Criteria' as approved under the immediately preceding paragraph of this subsection. At the request of the Regional Waste Manager, provide the

laboratory quality assurance data along with the submission of the data required under subsections 7.1 and 7.2 of this Operational Certificate.

Ensure that all tests and other data required to be submitted under the operational certificate are conducted by a laboratory acceptable to the Regional Waste Manager.

7. REPORTING

7.1 General Reporting

7.1.1 Maintain the monitoring data required in Section 6 for inspection.

7.1.2 The influent/effluent water quality analyses and flow data is to be submitted to the Regional Waste Manager such that they are received by the Regional Waste Manager within 30 days of the results being completed in-house or being sent out by the testing agency.

7.1.3 Monitoring data shall be submitted in an electronic and/or printed format satisfactory to the Regional Waste Manager.

7.2 Annual Reporting

7.2.1 Submit an annual report which includes a summary of the results of all monitoring programs as specified in this permit, data interpretation and trend analyses.

7.2.2 This report is to be in a format which is suitable for review by the public and/or other government agencies.

7.2.3 The first report is due on or before within 60 days of the end of a calendar year for that year's monitoring. Raw data are to be attached as appendices to the report.

7.2.4 Maintain and submit records of the following as a part of the annual report:

7.2.4.1 Records of effluent water balance, which would include the plant influent flow, the volume of effluent discharged to the Okanagan River Channel and the volume of effluent utilized for irrigation.

7.2.4.2 Records of the duration, intensity, acreage, location and type of reclaimed wastewater irrigation.

7.2.4.3 Records of efforts to reduce infiltration, inflow and cross connections.

7.2.4.4 Records of efforts to administer the Sanitary Sewer and Storm Sewer by-law(s). Include as an attachment, any amendments to the influent wastes by-law(s) that have been made during the past year.

7.2.4.5 Records of withdrawal of sludge from the sewage treatment plant, records of analyses and the location(s) used for disposal and/or utilization.

APPENDIX A

Requirements of Reclaimed Wastewater Users

The holder of this operational certificate (The reclaimed wastewater supplier) shall be responsible for ensuring that the contractual agreement with the Reclaimed Wastewater User is in accordance with the Operational Certificate. A copy of this Appendix is to be provided to each user prior to the commencement of irrigation EACH YEAR.

8. GENERAL REQUIREMENTS

8.1 Plans - New Works

8.1.1 Plans for modifications and/or extensions to the existing reclaimed wastewater irrigation system shall be approved by a person qualified in the design of irrigation systems.

8.1.2 Design and construct the irrigation works in accordance with best current agricultural practice and the "Pollution Control Guidelines for Municipal Effluent Application to Land", dated January 1983, and any amendments thereto, issued by the Ministry of Environment of British Columbia, and also in accordance with the "B.C. Sprinkler Irrigation Manual", dated 1989, prepared by the B.C. Ministry of Agriculture and Fisheries.

8.2 Construction Criteria

8.2.1 All reclaimed water user valves, shall be of a type or secured in a manner that permits operation by only personnel authorized by each wastewater user. All piping, valves and outlets should be marked to differentiate reclaimed wastewater from domestic water. All reclaimed wastewater controllers, valves, etc., shall be affixed with reclaimed wastewater warning signs.

8.2.2 Use or installation of hose-bibs on any irrigation system presently operating, or designated to operate with reclaimed wastewater, regardless of the hose-bbb construction or identification, is not permitted.

8.2.3 There shall be at least a 3 metre horizontal and a 0.3 metre vertical separation (with domestic water pipeline above the reclaimed water pipeline) between all pipelines transporting reclaimed water and those transporting domestic water.

8.2.4 There shall be no connection between a potable water supply, irrigation water or industrial well, and piping containing reclaimed wastewater, except through an air gap separation or reduced pressure principle device.

8.3 Fencing

The Reclaimed Wastewater User MAY be required by the Regional Waste Manager to erect a fence around the disposal area to restrict public access. The height and type of fencing shall meet the approval of the Regional Waste Manager.

8.4 Signage

8.4.1 Prominent "NO TRESPASSING", signs shall be erected around agricultural and silvicultural sites irrigated with reclaimed wastewater, warning persons of the possible health hazard during the irrigation season and advising that the water used for irrigation is NOT POTABLE. The wording shall be in language or symbols readily comprehensible by the general public. eg. "NO TRESPASSING - RECLAIMED WASTEWATER - DO NOT DRINK"

8.4.2 Warning signs shall be posted in sufficient numbers and size and at strategic locations to advise the public that reclaimed water is being used.

9. GENERAL REQUIREMENTS - RECLAIMED WASTEWATER IRRIGATION

9.1 Buffer Zones

9.1.1 The requirement for formal buffer zones surrounding lands irrigated with reclaimed wastewater is no longer in effect, however, a buffer zone may be specified by the Regional Waste Manager.

9.1.2 Reclaimed wastewater applied by irrigation shall not be applied to the ground any closer than 15 metres from the edge of flowing streams or bodies of water, unless specifically authorized by the Regional Waste Manager. The Penticton Golf and Country Club, the Pollution Control Centre grounds, City parklands and the area known as the walking and biking path of the Channel Parkway are specifically exempted.

9.1.3 There shall be no reclaimed wastewater irrigated within 30 metres of any well or inground reservoir for domestic supply.

9.1.4 To preclude conflict between public use and effluent irrigation, high public use areas are to be irrigated either during night time hours when the public is not using the property in question or public access to the area being irrigated is to be restricted whilst irrigation with effluent is occurring.

9.2 Surface Runoff

9.2.1 There shall be no surface runoff of irrigated reclaimed wastewater from the irrigated lands.

9.2.2 The maximum ground slope shall not exceed 20% without the written consent of the Regional Waste Manager.

9.3 Surfacing Reclaimed Wastewater

9.3.1 Irrigation shall be managed in such a fashion as to preclude surfacing of irrigation tail water down slope of the point of irrigation.

9.3.2 Irrigation shall be managed so as to prevent ponding.

9.4 Spray Irrigation Drift

9.4.1 Reclaimed wastewater shall be confined to the area designated and approved for reclamation. The reclaimed wastewater irrigation system shall be managed in such a fashion as to prevent aerosol drift from leaving the irrigated lands.

9.4.2 Precautions shall be taken to ensure that reclaimed water will not have contact with any facility or area not designated for reclamation, such as passing vehicles, buildings, domestic water facilities, or food handling facilities.

9.4.3 Drinking water facilities shall be protected from direct or wind blown reclaimed wastewater spray.

9.5 Irrigation Rates

9.5.1 Irrigation rates shall not exceed the rates given in "B.C. Sprinkler Irrigation Manual", dated 1989, prepared by the B.C. Ministry of Agriculture and Fisheries.

9.5.2 Soils of the irrigated lands shall be monitored periodically or as otherwise directed by the Regional Waste Manager or City of Penticton, to prevent saturation, erosion, and instability .

9.6 Agricultural Products Lag Time

9.6.1 A three day lag time is required before uninspected livestock intended for human consumption are permitted on areas irrigated with reclaimed wastewater. No lag time is required if livestock are subjected to the federal meat inspection program.

9.6.2 A six day lag time is required before dairy cattle are permitted in areas irrigated with reclaimed wastewater.

9.6.3 A three day lag time, after irrigation has ceased, is required before a crop intended for animal feed is harvested.

9.7 Insect and Vector Control

Adequate measures shall be taken to prevent the breeding of insects and other vectors of health significance, and the creation of odors, slimes or unsightly deposits.

9.8 Irrigation of Public Areas

9.8.1 Irrigation on golf courses or cemeteries shall only be practised when the public are not present.

9.8.2 Golf score cards shall indicate that reclaimed wastewater is used for irrigation on the golf course lands.

DIRECTORY OF COUNCIL AND CITY OFFICIALS
2005

COUNCIL

MAYOR	G.J. Kimberley	
COUNCILLORS	Dan Ashton	Randy Manuel
	Joanne Grimaldi	Rory McIvor
	Garry Litke	John Vassilaki

CITY OFFICIALS

Administrator/Clerk	L. den Boer
Director of Corporate Services/Treasurer	J.A. Kler
Collector	M.L. Raymond
Director of Development Services	M. Moroziuk
Director of Parks, Recreation and Culture	B. Reid
Human Resources Manager	G.P.A. Sobool
Fire Chief	W. Williams
R.C.M.P. Inspector	D. Fudge

CITY AUDITORS	BDO Dunwoody
CITY SOLICITORS	Davie & Associates
BANKERS	HSBC Bank Canada

TREASURER'S REPORT

May 2006

Mayor and Council
The Corporation of the City of Penticton

Your Worship and Members of Council:

In accordance with Section 167(1) of the Community Charter, I am pleased to submit the 2005 Annual Financial Report of the City of Penticton for the fiscal year ended December 31, 2005. The report includes the Auditors' Report, the 2005 audited financial statements, and supplementary information for the City of Penticton.

The financial statements were prepared by City staff in accordance with generally accepted accounting principles for local governments, as recommended by the Public Sector Accounting Board (PSAB) of the Canadian Institute of Chartered Accountants. These statements were audited by BDO Dunwoody and their responsibility was to express an opinion based on the results of their audit. The audit was planned and performed to obtain reasonable assurance as to whether the financial statements were free of material error or misstatement.

The operations of the City of Penticton are segregated into various funds for accounting and financial reporting purposes. The funds are as follows:

General Fund
Water Utility Fund
Reserve Funds
Sanitary Sewer Utility Fund
Electric Utility Fund

The Annual Report includes the financial statements for each entity as well as consolidation statements for all entities. The highlights from these reports are summarized below:

CAPITAL EXPENDITURES

	2005	2004
General Fund	$7,876,448	$10,271,748
Sewer Fund	1,012,145	948,644
Water Fund	1,101,163	1,301,647
Electric Fund	1,151,077	1,208,227
Total Capital Expenditures	**$11,140,833**	**$13,730,266**

Major capital projects included in the above summary are:

General Capital

City-wide Transportation Works	$2,187,098
Parks - Landscape and Development	1,967,178
Wine Information Centre	1,361,697
Information and Technology Works	308,070
City Fleet Equipment	420,850
City Hall Renovations	256,915

Utilities

Sewer Mains	$770,314
Sewer Treatment Plant Works	168,388
Water Mains	374,646
Water Metering Services	218,854
Water Irrigation Line	207,197
Electric Utility Services	472,300
Electric Utility Line Reconstruction	369,514
Electric Utility Voltage Conversion Program	247,717

Operating Expenditures and Debt Charges *(excludes transfers to other funds and reserves)*

		2005	2004
General Fund	Operating	$29,796,683	$27,060,356
	Debt	1,351,180	1,079,364
		$31,147,863	**$28,139,720**
Sewer Fund	Operating	$1,835,119	$1,798,527
	Debt	347,898	346,544
		$2,183,017	**$2,145,071**
Water Fund	Operating	$2,202,656	$2,068,391
	Debt	572,132	611,295
		$2,774,788	**$2,679,686**
Electric Fund	Operating	**$17,498,509**	**$16,758,780**
TOTAL NET OPERATING EXPENDITURES		**$53,521,589**	**$49,723,257**

Financial Statistics

	2005	2004
Real Property Taxes	$18,540,024	$17,456,069
Collection of taxes for other Governments	16,919,158	16,144,416
Long-Term Debt Outstanding	13,185,569	12,176,428
Per Capita Debt – General Purposes	280	232
Per Capita Debt – Utilities	146	161

Investment Earnings

Investment of all excess Revenue and Reserve Funds generated $1,182,601 in 2005 compared to $1,174,112 in 2004. Our portfolio is comprised equally of money market and term deposits maturing within a year and long-term bonds.

Surplus

The general revenue fund generated a surplus of $576,365. The surplus can be attributed to various departments operating under their budget provisions, increased revenue from Building Permits, M.F.A. Debt Reserve Surplus and a full year impact in regards to the eligible percentage for the G.S.T. rebate.

Utilities

All utilities ended the year in a surplus position. This was due to a combination of factors such as reduced operating expenses, additional revenue and reduction in scope of some capital projects.

The Sewer Utility surplus was $800,290 of which $410,030 was due to a one-time allocation of Development Cost Charges from the prior year.

The Water Utility surplus was $87,436 and the Electric Utility surplus was $501,678.

Library

The Statement of Revenue and Expenditure for the Penticton Public Library is presented in this report. Library revenue reflects a City grant of $850,098 which includes an allowance of $163,217 for building and administration costs, and $20,222 for equipment depreciation.

Respectfully submitted,

Jack Kler
Director Corporate Services/Treasurer

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

Consolidated Statement of Financial Position

December 31, 2005
(With comparative figures for 2004)

	2005	2004
FINANCIAL ASSETS		
Cash	$ 2,640,961	$ 1,729,483
Term Deposits	38,512,143	34,284,415
Receivables		
Property Taxes	732,491	523,960
Federal Government	346,085	891,604
Province of B.C.	281,072	1,181,984
Other Government Agencies	47,839	5,888
Utility Accounts	1,719,603	1,307,762
Accrued Interest	279,975	275,808
Other	2,328,341	1,723,761
Deposit - Municipal Finance Authority	1,168,540	1,425,024
Pre Paid Expenses	107,847	426,447
	48,164,897	43,776,136
LIABILITIES		
Payables		
Provincial Government	51,968	-
Federal Government	1,438,152	-
Trade Accounts and Accrued Liabilities	7,056,039	8,675,266
Development Cost Charges	1,738,844	1,466,518
Deferred Revenue	2,653,525	2,373,981
Sundry Deposits	1,817,350	2,056,200
Penticton Public Library	110,970	75,199
Reserve - Municipal Finance Authority	1,168,540	1,425,024
Long-term Debt	13,184,871	12,176,427
	29,220,259	28,248,615
Net Financial Assets (Liabilities)	18,944,638	15,527,521
Physical Assets		
Capital Assets	240,903,262	229,999,327
Net Position	$ 259,847,900	$ 245,526,848
Municipal Position		
Equity in Physical Assets	227,718,391	217,822,900
Capital and Operating Fund	21,308,877	18,285,903
Statutory Reserve Funds	10,820,632	9,418,045
	$ 259,847,900	$ 245,526,848

See accompanying notes to the financial statements

TREASURER

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

Consolidated Statement of Financial Activities

December 31, 2005
(With comparative figures for 2004)

	2005	2005 Budget (Unaudited)	2004
REVENUE			
Taxation - net	$ 18,895,912	$ 18,548,531	$ 17,826,516
Grants in Lieu of Taxes	185,363	171,935	171,529
Sales of Services	38,135,699	38,757,605	34,979,595
Other Revenue from Own Sources	4,974,240	4,805,602	6,026,203
Interest Revenue from Reserves	252,971	-	232,489
Actuarial Adjustments	238,649	-	208,203
Contributions from Developers and Others	1,107,879	474,132	976,033
Unconditional Transfers - Provincial Government	390,272	390,272	341,636
Conditional Transfers - Federal Government	567,382	588,550	880,926
Conditional Transfers - Provincial Government	780,152	840,150	630,493
Conditional Transfers - Regional and Local Governments	234,024	38,476	231,110
Debt Finance	289,456	-	337,500
	66,051,999	64,615,253	62,842,233
EXPENDITURE			
General Government Services	5,325,910	7,566,755	6,059,726
Protective Services	9,456,156	9,849,019	9,145,937
Transportation Services	3,977,875	4,314,587	2,789,095
Environmental Health Services	5,686,029	6,108,606	5,560,074
Public Health Services	123,416	118,594	118,495
Environmental Development Services	2,205,061	2,369,222	1,990,463
Recreation and Cultural Services	6,985,114	6,677,879	6,349,094
Electric Supply	17,498,509	17,994,398	16,758,780
Bank Charges and Interest	56,526	44,100	32,033
Temporary Borrowings	-	-	14,242
Inventory	179,453	-	74,856
Capital Expenditures	11,140,833	17,875,166	13,730,266
	62,634,882	72,918,326	62,623,061
Net Revenue/(Expenditure)	3,417,117	(8,303,073)	219,172
Proceeds from Long Term Debt	2,295,000	-	2,962,501
Debt Principal Repayments	(1,047,907)	1,047,209	(926,423)
Sinking Fund Actuarial Amount	(238,649)	-	(208,204)
Increase/(Decrease) in Fund Balances	$ 4,425,561	$ (7,255,864)	$ 2,047,046

See accompanying notes to the financial statements

TREASURER

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

Consolidated Statement of Changes in Financial Position

December 31, 2005
(With comparative figures for 2004)

	2005	2004
Cash flows from (to)		
Operations		
Net increase(decrease) in financial equity	$ 4,870,546	$ 956,624
Net increase in equity in capital assets	9,757,288	10,383,435
Decrease(increase) in accounts receivable	864,057	(1,494,743)
Decrease(increase) in taxes and utilities receivable	(620,372)	295,991
Decrease(increase) in prepaid expenses	318,600	(250,130)
Decrease(increase) in investments	(4,325)	(37,723)
Increase(decrease) in accounts payable	(79,586)	1,787,525
Increase(decrease) in refundable deposits	(359,649)	541,945
Increase(decrease) in deferred revenue	322,439	375,035
Net cash from operations	15,068,998	12,557,959
Financing		
Increase in long term debt	2,295,000	2,962,500
Principal repayments on long-term debt	(1,285,858)	(1,134,626)
Decrease in deposits - MFA	(256,484)	83,381
Decrease in MFA cash and demand notes payable	256,484	(83,381)
	1,009,142	1,827,874
Investments		
Expenditures on capital assets	(11,140,833)	(11,737,351)
Cost of assets disposed and write-down	236,899	65,400
	(10,903,934)	(11,671,951)
Change in cash and short-term investments	5,174,206	2,713,882
Cash and short-term investments, beginning of year	36,603,898	33,890,016
Cash and short-term investments, end of year	$ 41,778,104	$ 36,603,898
Consisting of:		
Restricted cash		
Statutory reserves and deferred revenue	14,602,393	12,779,277
Utilities	8,746,653	8,706,432
	23,349,046	21,485,709
Current funds	18,429,058	15,118,189
	$ 41,778,104	$ 36,603,898

See accompanying notes to the financial statements

TREASURER

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

Consolidated Statement of Statutory Reserve Fund Operations

December 31, 2005
(With comparative figures for 2004)

	2005	2004
BALANCE, BEGINNING OF YEAR	$ 10,884,563	$ 11,742,945
ADD		
Transfers from		
Revenue Funds	3,204,449	2,031,991
Interest Earned	293,987	278,488
	14,382,999	14,053,424
DEDUCT		
Transfers to		
Revenue Funds	902,149	130,761
Capital Funds	921,376	3,038,100
	$ 12,559,474	$ 10,884,563

Summary of Statutory Reserve Fund Balances

Equipment Replacement		$ 3,299,480	$ 3,021,748
Tax Sale Lands		5,862	5,709
Development Cost Charges	- Roads	309,747	198,019
	- Public Open Space	665,662	327,485
	- Water Mains/Filtration Plant	384,895	252,485
	- Sanitary Sewer	87,777	484,947
	- Storm Sewer	290,763	203,582
Capital		1,941,409	988,240
Local Improvement		1,093,390	1,038,901
Sewer System Capital		1,342,182	1,307,150
Water System Capital		2,290,462	2,230,680
Electric Capital		787,110	766,566
Off-Site Parking		60,735	59,051
		$ 12,559,474	$ 10,884,563

See accompanying notes to the financial statements

TREASURER

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

Consolidated Statement of Equity in Capital Assets

December 31, 2005
(With comparative figures for 2004)

	2005	2004
BALANCE, BEGINNING OF YEAR	$ 217,549,322	$ 205,404,559
ADD		
Assets Acquired by Transfer		
Federal Government	556,938	870,318
Provincial Government	576,380	541,369
Development Cost Charges Reserve Fund	171,748	1,364,981
Capital Reserve Fund	24,980	293,277
Equipment Replacement Reserve Fund	716,142	1,042,199
Revenue Funds	5,660,925	6,290,812
Interest Earned	2,539	3,911
Other Contributions	1,107,878	976,033
Repayment to General Revenue Fund	-	124,078
Retirement of Long-term Debt	1,047,210	926,423
Actuarial Sinking Fund Requirement	238,649	208,204
Repayment of Loan from Local Improvement Reserve Fund	180,254	137,645
	10,283,643	12,779,250
DEDUCT		
Assets Written Off	236,899	634,487
BALANCE, END OF YEAR	$ 227,596,066	$ 217,549,322

See accompanying notes to the financial statements

TREASURER

The notes to the Consolidated Financial Statements are an integral part of the statements. They explain the significant accounting and reporting policies and principles underlying these statements. They also provide relevant supplementary information and explanations which cannot be conveniently expressed in the Consolidated Financial Statements.

1. ACCOUNTING POLICIES

(a) The municipality reports its activities on the fund accounting basis as followed by British Columbia municipalities;
(b) In accordance with accounting and reporting requirements of the Ministry of Municipal Affairs, depreciation is no longer recorded;
(c) The Consolidated Statements include all General, capital and Utility Funds of the Municipality, including the Cemetery Perpetual Trust Care Fund;
(d) All fund bank accounts are consolidated in the General Revenue Fund;
(e) Capital assets are recorded at cost;
(f) Certain 2004 figures have been reclassified in order to be consistent with the presentation of 2005.

Municipal Finance Authority
Cash Deposits and Demand Notes
The Municipality issues the majority of its debt instruments through the Municipal Finance Authority. As a condition of these borrowings, a portion of the debenture proceeds is withheld by the Municipal Finance Authority as a debt reserve fund. The Municipality also executes demand notes in connection with each debenture whereby the Municipality may be required to loan certain amounts to the Municipal Finance Authority. These demand notes are contingent in nature.

Debenture Debt
Principal payments due for the next five years (in thousand of dollars) are forecasted as follows:

	2006	2007	2008	2009	2010
General Fund	$475	$800	$1,219	$1,552	$1,835
Sewer Fund	112	210	291	352	429
Water Fund	168	306	309	332	367
	$755	$1,316	$1,819	$2,236	$2,631

Reserves for Future Expenditure
Reserves for future expenditure are non-statutory reserves which represent an appropriation of surplus for specific purposes. Transfers to reserves for future expenditure include funds to finance incomplete projects and accumulations for specific purposes.

Interfund Balances and Transactions
All material interfund transactions and balances have been eliminated within the consolidated financial statements.

Statutory Reserve Funds
The use of these funds is restricted by the Local Government Act and associated Municipal Bylaws. Statutory reserve funds are funded 100% by cash and temporary investments.

Financial Instruments
The City's financial instruments consists of cash and temporary investments, accounts receivable, accrued interest, long term investments, accounts payable and long term debt. Unless otherwise noted, it is management's opinion that the city is not exposed to significant interest, currency or credit risks arising from these financial instruments. The fair values of these financial instruments approximate their carrying value, unless otherwise noted.

Budget Figures
The budget figures are from the Annual Five-Year Financial Plan Bylaw adopted before May 15 of each year. Subsequent amendments have been made by the Council to reflect changes in the budget as required by law.

Use of Estimates
The preparation of financial statements in accordance with Canadian generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from management's best estimates as additional information becomes available in the future.

Object Reporting
The total funds expended by the City (in thousands of dollars):

	2005	2004
Payroll	$16,755	$15,329
Supplies and Services	45,880	47,294

2. FINANCIAL ASSETS AND LIABILITIES

Temporary investments (in thousands of dollars) recorded at cost and are as follows:

Type of Investments	2005	2004
Cash	$2,641	$1,729
Municipal Finance Authority Bond Fund	7,571	7,434
Government and Bank Issued Accrual Notes and Debenture	10,385	9,850
Guarantee Investments Certificates and Deposit Notes	20,556	17,596
Total Cash and Temporary investments	$41,153	$36,609

Accounts Receivables (in thousands of dollars) recorded net of allowance:

Type of Receivable	2005	2004
Property tax	$732	$524
Accounts Receivable	2,328	1,723
Federal Government	346	892
Provincial Government	297	1,182
Other Government	32	6
Utilities	1,719	1,308
Total Accounts Receivable	$5,454	$5,635

Capital Assets by type (in thousands of dollars)

	2005	2004
Engineering Structures	$154,887	$147,384
Buildings	47,354	44,925
Machinery and Equipment	23,746	22,774
Land	14,916	14,916
	$240,903	$229,999

Development Cost Charges (DCC)

The City collects development cost charges to pay for a proportionate share of infrastructure related to new growth. In accordance with the Local Government Act of BC, these funds must be deposited into a separate reserve fund. When the related costs are incurred, the DCCs are recognized as revenue. Because these funds are restricted in nature, they are shown as a liability.

DCC by type	2005	2004
Roads	$310	$198
Parks	665	328
Drainage	291	204
Wasterwater	88	485
Water	385	252
TOTAL	$1,739	$1,467
DCC Activity		
Balance, beginning of year	$1,467	$2,184
Return on investments	41	46
DCCs levied in the year	1,133	932
Transfers to General Capital	(95)	(1,295)
Transfers to General Operating	(266)	(200)
Transfers to Wastewater Capital	(441)	(69)
Transfers to Water Capital	-	-
Transfer to Water Operating	(100)	(131)
Balance, end of year	$1,739	$1,467

3. CONTINGENT LIABILITIES

Regional District of Okanagan Similkameen

Under Section 836 of the *Local Government Act*, all monies borrowed by a Regional District, shall be upon its credit at large and shall, in the event of any default, constitute an indebtedness of the member municipalities for which they are jointly and severally liable. At December 31, 2005, the long-term debt of the Regional District aggregated $37,157,279 (2004 - $27,550,071).

Legal Actions

As at December 31, 2005, certain other legal actions are pending against the Municipality, the outcome of which cannot be determined at this time. As it is not possible to determine the outcome of these proceedings, no provision for any potential liability has been recorded in the accounts.

Pension Liability

The municipality and its employees contribute to the Municipal Pension Plan (the plan) a jointly trusteed pension plan. The Board of Trustees, representing plan members and employers, is responsible for overseeing the management of the pension plan, including investment of the assets and administration of benefits. The pension plan is a multi-employer contributory pension plan. Basic pension benefits provided are defined. The plan has about 130,000 active members and approximately 48,000 retired members. Active members include approximately 30,000 contributors from local governments.

Every three years an actuarial valuation is performed to assess the financial position of the plan and the adequacy of plan funding. The most recent valuation as at December 31, 2004 indicated an unfunded liability of $789 million for basic pension benefits. The next valuation will be as at December 31, 2007 with results available in 2008. The actuary does not attribute portions of the unfunded liability to individual employers. The City of Penticton paid $1,029,332 for employer contributions to the plan in fiscal 2005.

3. LETTERS OF CREDIT

In addition to the performance deposits reflected in the Statement of Financial Position, the City if holding irrevocable Letters of Credit in the amount of $3,345,309 which were received from depositors to ensure their performance of works to be undertaken within the city. These amounts are not reflected in the financial statements but are available to satisfy liabilities arising from non-performance by the depositors.

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

GENERAL REVENUE FUND

Statement of Financial Position

December 31, 2005
(With comparative figures for 2004)

	2005	2004
ASSETS		
CASH	$ 2,640,961	$ 1,729,483
TERM DEPOSITS	38,512,143	34,284,415
RECEIVABLES		
Property Taxes	732,491	523,960
Federal Government	346,085	891,604
Provincial Government	281,072	1,181,984
Regional District Okanagan Similkameen	16,243	1,569
Other Government Agencies	31,596	4,319
General Capital Fund	289,456	250,511
Water Capital Fund	550,883	550,883
Other	2,102,009	1,275,899
	4,349,835	4,680,729
MATERIALS AND SUPPLIES	392,524	335,213
OTHER ASSETS		
Trusts and Other Deposits Municipal Finance Authority	448,972	715,649
Accrued Interest Receivable	279,975	275,808
Prepaid Expenses	107,847	426,447
	836,794	1,417,904
	$ 46,732,257	$ 42,447,744

See accompanying notes to the financial statements

TREASURER

	2005	2004
LIABILITIES AND SURPLUS		
PAYABLES		
Other Funds		
Equipment Replacement Reserve Fund	$ 3,299,480	$ 3,021,748
Tax Sale Lands Reserve Fund	5,862	5,709
Development Cost Charges Reserve Fund	1,738,844	1,466,549
Capital Reserve Fund	1,941,409	988,240
Local Improvement Reserve Fund	469,835	555,389
Water Capital Reserve Fund	2,290,462	2,230,680
Sewer Capital Reserve Fund	1,342,182	1,307,150
Electric Capital Reserve	787,110	766,566
Off-Site Parking Reserve Fund	60,735	59,051
Cemetery Perpetual Care Fund	12,949	4,214
	11,948,868	10,405,296
Sewer Utility	2,753,804	2,357,525
Water Utility	1,617,615	2,034,889
Electric Utility	3,659,923	3,640,191
General Capital Fund	715,311	673,827
Federal Government	1,438,152	-
Provincial Government	51,968	-
Trade Accounts and Accrued Liabilities	7,056,039	8,675,266
Deferred Revenues	2,653,525	2,373,981
Sundry Deposits	1,240,582	1,164,061
Penticton Public Library	110,970	75,199
Municipal Finance Authority Debt Reserve Fund		
Cash Requirement	107,678	314,303
Demand Note Requirement	341,294	401,346
	448,972	715,649
RESERVES FOR FUTURE EXPENDITURES		
Capital Expenditures	2,019,958	1,653,285
Operating Expenditures	239,795	290,846
	2,259,753	1,944,131
ASSET VALUATION ALLOWANCES		
Allowance for Doubtful Accounts	59,206	52,206
OTHER RESERVES		
Own Reserves	6,646,380	4,840,699
SURPLUS	4,071,189	3,494,824
	$ 46,732,257	$ 42,447,744

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

GENERAL REVENUE FUND

Statement of Revenues and Expenditures

December 31, 2005
(With comparative figures for 2004)

	2005 Actual	2005 Budget (Unaudited)	2004
REVENUE			
Taxation			
Real Property	$ 18,340,233	$ 18,341,467	$ 17,260,289
Special Assessments	199,791	207,064	195,780
	18,540,024	18,548,531	17,456,069
Grants in Lieu of Taxes			
Federal Government	71,852	65,000	65,038
Provincial Government	113,511	106,935	106,491
	185,363	171,935	171,529
Sales of Services	9,999,807	8,770,246	8,410,698
Other Revenue from Own Sources	6,847,224	5,357,975	5,661,234
Municipal Finance Authority Debt Reserve Fund	337,784	-	-
Municipal Finance Authority Debt Proceeds	289,456	3,072,618	213,451
Unconditional Transfers - Provincial Government	390,272	390,272	341,636
Conditional Transfers - Federal Government	10,444	588,550	10,608
Conditional Transfers - Provincial Government	125,123	765,699	84,573
Conditional Transfers - Regional and Local Governments	32,807	36,476	32,959
Transfer from Own Reserves	2,469,500	2,773,949	3,195,598
Transfer from Other Funds			
Development Cost Charges Reserve Fund	265,551	492,831	200,000
Electric Utility Revenue Fund	3,340,000	3,340,000	945,293
	24,107,968	25,588,616	19,096,050
Collections for Other Governments	16,919,158	16,920,681	16,144,416
	$ 59,752,513	$ 61,229,763	$ 52,868,064

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

GENERAL REVENUE FUND

Statement of Revenues and Expenditures

December 31, 2005
(With comparative figures for 2004)

		2005 Actual	2005 Budget (Unaudited)	2004
EXPENDITURE				
General Government Services		$ 6,567,583	$ 5,665,321	$ 6,052,863
Protective Services		9,199,506	9,838,193	8,889,287
Transportation Services		3,928,065	2,943,896	2,789,095
Environmental Health Services		1,007,968	1,452,032	1,002,396
Public Health Services		123,416	118,594	118,495
Environmental Development Services		2,205,061	2,211,132	1,990,463
Recreation and Cultural Services		6,708,558	6,459,844	6,185,724
		29,740,157	28,689,012	27,028,323
Fiscal Services				
Bank Charges and Interest		56,526	44,100	32,033
Long-term Debt Charges	- Interest	583,016	618,748	432,685
	- Principal	768,164	767,429	646,679
		1,407,706	1,430,277	1,111,397
Transfer to Own Reserves		4,678,997	8,645,825	3,966,828
Transfer to Other Funds				
Development Cost Charges Reserve Fund		872,837	1,264,088	698,806
Equipment Replacement Reserve Fund		910,290	910,290	783,541
General Capital Fund		3,469,210	2,644,729	1,885,545
Local Improvement Reserve Fund		221,187	94,079	178,579
Capital Reserve		939,411	610,782	137,763
Cemetery Perpetual Care Trust Fund		17,270	20,000	19,030
		6,430,205	5,543,968	3,703,264
Transfer to Other Governments and Boards		16,919,082	16,920,681	16,137,452
Transfer to/(from) Surplus		576,365	-	920,800
		$ 59,752,513	$ 61,229,763	$ 52,868,064

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

GENERAL CAPITAL FUND

Statement of Financial Position

December 31, 2005
(With comparative figures for 2004)

	2005	2004
ASSETS		
RECEIVABLES		
Due from General Revenue	$ 715,311	$ 673,827
FIXED ASSETS		
Engineering Structures	61,323,474	56,957,280
Buildings	37,772,612	35,410,493
Machinery and Equipment	22,764,889	21,854,595
Land	14,379,434	14,378,492
	$ 136,955,720	$ 129,274,687
LIABILITIES AND EQUITY IN CAPITAL ASSETS		
PAYABLES		
General Revenue Fund	$ 289,456	$ 250,511
Loan from Local Improvement Fund	440,874	334,127
LONG-TERM DEBT		
Debentures Authorized and Issued	8,679,469	7,178,004
EQUITY IN CAPITAL ASSETS	127,545,921	121,512,045
	$ 136,955,720	$ 129,274,687

See accompanying notes to the financial statements

TREASURER

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

GENERAL CAPITAL FUND

Statement of Equity in Capital Assets

December 31, 2005
(With comparative figures for 2004)

	2005	2004
BALANCE, BEGINNING OF YEAR	$ 121,512,045	$ 113,708,929
ADD		
Assets Acquired by Transfer		
Federal Government	556,938	870,318
Provincial Government	576,380	541,369
Development Cost Charges Reserve Fund	95,467	1,295,588
Capital Reserve Fund	24,980	293,277
Equipment Replacement Reserve Fund	716,142	1,042,199
Electric Capital Reserve Fund	-	-
Electric Utility	-	1,554,707
General Revenue Fund	3,469,211	1,885,545
Interest Earned	2,539	3,911
Other Contributions	240,601	409,838
Repayment to General Revenue Fund	-	124,078
Repayment of Long-term Debt	767,466	646,679
Actuarial Sinking Fund Requirement	26,070	19,068
Repayment of Loan from Local Improvement Reserve Fund	84,438	88,526
	6,560,232	8,775,103
DEDUCT		
Assets Written Off	236,900	634,487
Reclassification of Equity to Debt	289,456	337,500
BALANCE, END OF YEAR	$ 127,545,921	$ 121,512,045

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

GENERAL CAPITAL FUND

Statement of Capital Financing

December 31, 2005
(With comparative figures for 2004)

	2005	2004
FINANCES ACQUIRED		
Unexpended Funds at Beginning of Year	$ 673,827	$ 148,712
Federal Government	556,938	870,318
Provincial Government	576,380	541,369
Debentures issued by MFA	2,005,544	2,625,000
Transfers from		
Development Cost Charges Reserve Fund	95,467	1,295,588
Capital Reserve Fund	24,980	293,277
Equipment Replacement Reserve Fund	716,142	1,042,199
Electric Utility	-	1,554,707
General Reserve Fund	3,469,211	1,885,545
Interest Earned	2,539	3,911
Other Contributions	240,601	409,838
Repayment to General Revenue Fund	-	124,078
Repayment of Loan from Local Improvement Reserve Fund	84,438	88,526
Temporary Borrowings and Payables at End of Year	730,330	584,638
	$ 9,176,397	$ 11,467,706
FINANCES APPLIED		
Temporary Borrowings and Payables At Beginning of Year	$ 584,638	$ 522,131
Expenditures for General Fixed Assets	7,876,448	10,271,748
Unexpended Funds at End of Year	715,311	673,827
	$ 9,176,397	$ 11,467,706

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

RESERVE FUNDS

Statement of Financial Position

December 31, 2005
(With comparative figures for 2004)

		2005	2004
ASSETS			
RECEIVABLES			
General Revenue Fund		$ 11,935,919	$ 10,401,051
General Capital Fund		440,874	334,127
Sewer Capital Fund		182,681	149,385
		$ 12,559,474	$ 10,884,563
LIABILITIES AND FUND BALANCES			
FUND BALANCES			
Equipment Replacement		$ 3,299,480	$ 3,021,748
Tax Sale Lands		5,862	5,709
Development Cost Charges	- Roads	309,747	198,019
	- Public Open Space	665,662	327,485
	- Water Mains/Filtration Plant	384,895	252,485
	- Sanitary Sewer	87,777	484,947
	- Storm Sewer	290,763	203,582
Capital		1,941,409	988,240
Local Improvement		1,093,390	1,038,901
Sewer System Capital		1,342,182	1,307,150
Water System Capital		2,290,462	2,230,680
Electric Capital		787,110	766,566
Off-Site Parking		60,735	59,051
		$ 12,559,474	$ 10,884,563

See accompanying notes to the financial statements

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TREASURER

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

RESERVE FUNDS

Statement of Changes in Fund Balances

December 31, 2005
(With comparative figures for 2004)

	Equipment Replacement	Tax Sale Lands	Capital	Development Cost Charges	Local Improvement	Sewer Capital	Water Capital	Electric Capital	Off-Street Parking	2005 Total	2004 Total
BALANCE, BEGINNING OF YEAR	3,021,748	5,709	988,240	1,466,518	1,038,901	1,307,150	2,230,680	766,566	59,051	$ 10,884,563	$ 11,742,945
ADD											
Transfers from											
General Revenue Fund	910,290		939,411	872,837	221,187				100	2,943,825	1,798,687
Sewer Revenue Fund				36,435						36,435	28,935
Water Revenue Fund				224,190						224,190	204,369
Interest Earned	83,584	153	38,738	41,014	13,556	35,032	59,782	20,544	1,584	293,987	278,488
	4,015,622	5,862	1,966,389	2,640,993	1,273,644	1,342,182	2,290,462	787,110	60,735	14,382,999	14,053,424
DEDUCT											
Transfers to											
General Capital Fund	716,142		24,980		84,438					825,560	2,719,589
Sewer Capital Fund					95,816					95,816	118,511
Water Capital Fund										-	-
Water Revenue Fund				100,000						100,000	130,761
Sewer Revenue Fund				441,131						441,131	-
General Revenue Fund				361,018						361,018	200,000
BALANCE, END OF YEAR	3,299,480	5,862	1,941,409	1,738,844	1,093,390	1,342,182	2,290,462	787,110	60,735	$ 12,559,474	$ 10,884,563

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

SEWER SYSTEM UTILITY
Revenue Fund

Statement of Financial Position

December 31, 2005
(With comparative figures for 2004)

	2005	2004
ASSETS		
RECEIVABLES		
General Revenue Fund	$ 2,753,804	$ 2,357,525
Other	-	27,423
MATERIALS AND SUPPLIES	27,045	20,786
TRUSTS AND OTHER DEPOSITS		
Municipal Finance Authority	345,579	340,086
	$ 3,126,428	$ 2,745,820
LIABILITIES AND SURPLUS		
DEPOSITS	$ 2,421	$ 59,359
MUNICIPAL FINANCE AUTHORITY DEBT RESERVE FUND		
Cash Requirement	128,755	123,262
Demand Note Requirement	216,824	216,824
RESERVE FOR FUTURE EXPENDITURES	103,205	471,442
SURPLUS		
Balance at beginning of year	1,874,933	2,061,978
Transfer from/(to) Sewer Revenue	800,290	(187,045)
Balance at end of year	2,675,223	1,874,933
	$ 3,126,428	$ 2,745,820

See accompanying notes to the financial statements

TREASURER

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

SEWER SYSTEM UTILITY
Revenue Fund

Statement of Revenues and Expenditures

December 31, 2005
(With comparative figures for 2004)

	2005 Actual	2005 Budget (Unaudited)	2004
REVENUE			
Sewer Levy	$ 355,888	$ 356,064	$ 370,447
Sewer Fixture Charges	2,173,903	2,169,728	2,071,023
Sewer Connections and Recoveries	86,654	135,500	157,498
Development Cost Charges	35,576	15,000	28,935
Local Improvement	-	174,250	-
Provincial Government Conditional Grant	5,449	13,250	4,551
Okanagan Basin Water Board Conditional Grant	201,217	195,427	198,151
Municipal Finance Authority Debt Reserve Refund	3,566	-	32,207
Transfer from Own Reserve - Future Expenditures	462,146	462,146	-
Transfer from Development Cost Charges Reserve Fund	441,131	443,457	-
TOTAL REVENUE	$ 3,765,530	$ 3,964,822	$ 2,862,812
EXPENDITURE			
Administration	$ 391,804	$ 427,859	$ 360,741
Sewage Collection Systems	209,208	273,163	241,431
Lift Station, Operation & Maintenance	44,829	60,800	57,769
Sewage Treatment and Disposal	1,186,198	1,202,288	1,136,868
Other	3,080	5,000	1,718
Long-term Debt Charges - Interest	236,000	236,000	234,646
- Principal	111,898	111,897	111,898
Contributions to Capital Fund	651,879	1,157,195	753,705
Transfer to Development Cost Charges Reserve	36,435	15,000	28,935
Transfer to Own Reserve - Future Expenditures	93,909	-	462,146
Transfer to/(from) Surplus	800,290	475,620	(187,045)
TOTAL EXPENDITURE	$ 3,765,530	$ 3,964,822	$ 3,202,812

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

SEWER SYSTEM UTILITY
Capital Fund

Statement of Financial Position

December 31, 2005
(With comparative figures for 2004)

	2005	2004
ASSETS		
FIXED ASSETS		
Engineering Structures	$ 31,517,841	$ 30,535,769
Buildings	4,828,895	4,828,895
Machinery and Equipment	334,609	304,536
Land	137,521	137,521
	$ 36,818,866	$ 35,806,721
LIABILITIES AND EQUITY IN CAPITAL ASSETS		
PAYABLES		
Loan from Local Improvement Fund	$ 182,681	$ 149,385
LONG-TERM DEBT		
Debentures Authorized and Issued	1,128,231	1,357,265
EQUITY IN CAPITAL ASSETS	35,507,954	34,300,071
	$ 36,818,866	$ 35,806,721

See accompanying notes to the financial statements

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TREASURER

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

SEWER SYSTEM UTILITY
Capital Fund

Statement of Equity in Capital Assets

December 31, 2005
(With comparative figures for 2004)

	2005	2004
BALANCE, BEGINNING OF YEAR	$ 34,300,071	$ 33,107,280
ADD		
Development Cost Charges Reserve Fund	76,281	69,393
Utility Revenue Fund	651,879	753,705
Other Contributions	154,874	102,445
Retirement of Long-term Debt	111,896	111,898
Actuarial Sinking Fund Requirement	117,137	106,231
Repayment of Loan from Local Improvement Reserve Fund	95,816	49,119
	1,207,883	1,192,791
BALANCE, END OF YEAR	$ 35,507,954	$ 34,300,071

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

SEWER SYSTEM UTILITY

Statement of Capital Financing

December 31, 2005
(With comparative figures for 2004)

	2005	2004
FINANCES ACQUIRED		
Transfers from		
Development Cost Charges Reserve Fund	$ 76,281	$ 69,393
Utility Revenue Fund	651,879	753,705
Other Contributions	154,874	102,445
Repayment of Loan from		
Local Improvement Reserve Fund	95,816	49,119
Temporary Borrowings and Payables at End of Year	182,681	149,386
	$ 1,161,531	$ 1,124,048
FINANCES APPLIED		
Temporary Borrowings and Payables at Beginning of Year	$ 149,386	$ 175,404
Expenditure for Fixed Assets	1,012,145	948,644
	$ 1,161,531	$ 1,124,048

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

WATER SYSTEM UTILITY
Revenue Fund

Statement of Financial Position

December 31, 2005
(With comparative figures for 2004)

		2005		2004
ASSETS				
RECEIVABLES				
General Revenue Fund	$	1,617,615	$	2,034,889
Utility Rates		260,013		205,521
Other		6,548		158,853
MATERIALS AND SUPPLIES		155,698		122,350
TRUSTS AND OTHER DEPOSITS				
Municipal Finance Authority		373,989		369,289
	$	2,413,863	$	2,890,902
LIABILITIES AND SURPLUS				
PAYABLES				
Deposits	$	106,407	$	312,595
Deferred Revenue		-		22,608
MUNICIPAL FINANCE AUTHORITY DEBT RESERVE FUND				
Cash Requirement		115,591		110,891
Demand Note Requirement		258,398		258,398
RESERVE FOR FUTURE EXPENDITURES		210,007		550,386
SURPLUS				
Balance at beginning of year		1,636,024		2,308,230
Transfer from/(to) Water Revenue		87,436		(672,206)
Balance at end of year		1,723,460		1,636,024
	$	2,413,863	$	2,890,902

See accompanying notes to the financial statements

TREASURER

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

WATER SYSTEM UTILITY
Revenue Fund

Statement of Revenues and Expenditures

December 31, 2005
(With comparative figures for 2004)

	2005 Actual	2005 Budget (Unaudited)	2004
REVENUE			
Water Rates	$ 3,202,627	$ 5,180,973	$ 3,307,583
Recoveries - Connections, Service & Other	32,298	69,500	17,701
Development Cost Charges	219,671	125,000	204,309
Provincial Government Conditional Grant	73,200	76,451	-
Transfer from Own Reserve - Future Expenditures	550,386	550,386	292,300
Transfer from Development Cost Charges Reserve Fund	100,000	989,047	130,761
TOTAL REVENUE	$ 4,178,182	$ 6,991,357	$ 3,952,654
EXPENDITURE			
Administration	$ 525,781	$ 639,807	$ 478,597
Purification and Treatment	614,656	737,304	632,700
Transmission and Distribution	715,943	660,582	521,292
Pumping	172,505	175,000	269,209
Customer Billing and Collection	154,751	140,000	152,857
Other	19,020	23,000	13,736
Long-term Debt Charges - Interest	404,286	423,900	443,449
- Principal	167,846	167,847	167,846
Contributions to Capital Fund	881,761	3,828,728	1,190,419
Transfer to Development Cost Charges Reserve	224,190	125,000	204,369
Transfer to Own Reserve - Future Expenditures	210,007	-	550,386
Transfer to/(from) Surplus	87,436	70,189	(672,206)
TOTAL EXPENDITURE	$ 4,178,182	$ 6,991,357	$ 3,952,654

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

WATER SYSTEM UTILITY
Capital Fund

Statement of Financial Position

December 31, 2005
(With comparative figures for 2004)

	2005	2004
ASSETS		
FIXED ASSETS		
Engineering Structures	$ 42,328,837	$ 41,265,409
Buildings	2,915,633	2,890,325
Machinery and Equipment	222,974	210,547
Land	338,566	338,566
	$ 45,806,010	$ 44,704,847
LIABILITIES AND EQUITY IN CAPITAL ASSETS		
PAYABLES		
Due to General Revenue Fund	$ 550,883	$ 550,883
LONG-TERM DEBT		
Debentures Authorized and Issued	3,377,870	3,641,158
EQUITY IN CAPITAL ASSETS	41,877,257	40,512,806
	$ 45,806,010	$ 44,704,847

See accompanying notes to the financial statements

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TREASURER

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

WATER SYSTEM UTILITY
Capital Fund

Statement of Equity in Capital Assets

December 31, 2005
(With comparative figures for 2004)

	2005	2004
BALANCE, BEGINNING OF YEAR	$ 40,512,806	$ 38,909,677
ADD		
Utility Revenue Fund	881,761	1,190,419
Other Contributions	219,402	161,959
Retirement of Long-term Debt	167,846	167,846
Actuarial Sinking Fund Requirement	95,442	82,905
	1,364,451	1,603,129
BALANCE, END OF YEAR	$ 41,877,257	$ 40,512,806

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

WATER SYSTEM UTILITY

Statement of Capital Financing

December 31, 2005
(With comparative figures for 2004)

	2005	2004
FINANCES ACQUIRED		
Transfers from		
Utility Revenue Fund	$ 881,761	$ 1,190,419
Other Contributions	219,402	161,959
Temporary Borrowings and Payables at End of Year	550,883	550,883
	$ 1,652,046	$ 1,903,261
FINANCES APPLIED		
Temporary Borrowings and Payables at Beginning of Year	$ 550,883	$ 601,614
Expenditure for Fixed Assets	1,101,163	1,301,647
	$ 1,652,046	$ 1,903,261

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

ELECTRIC SYSTEM UTILITY
Revenue Fund

Statement of Financial Position

December 31, 2005
(With comparative figures for 2004)

	2005	2004
ASSETS		
RECEIVABLES		
General Revenue Fund	$ 3,659,923	$ 3,640,191
Utility Rates	1,459,590	1,102,241
Other	219,781	261,586
MATERIALS AND SUPPLIES	1,580,747	1,498,212
	$ 6,920,041	$ 6,502,230
LIABILITIES AND SURPLUS		
PAYABLES		
Deposits	$ 467,940	$ 497,577
RESERVE FOR FUTURE EXPENDITURES	23,000	77,230
SURPLUS		
Balance at beginning of year	5,927,423	5,269,521
Transfer from/(to) Electric Revenue	501,678	657,902
Balance at end of year	6,429,101	5,927,423
	$ 6,920,041	$ 6,502,230

See accompanying notes to the financial statements

TREASURER

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

ELECTRIC SYSTEM UTILITY
Revenue Fund

Statement of Revenue and Expenditures

December 31, 2005
(With comparative figures for 2004)

	2005 Actual	2005 Budget (Unaudited)	2004
REVENUE			
Rates	$ 21,550,931	$ 22,222,684	$ 20,177,662
Recoveries - Connections & Other	393,101	572,836	604,186
Transfer from Own Reserve - Future Expenditures	77,230	77,230	118,500
TOTAL REVENUE	$ 22,021,262	$ 22,872,750	$ 20,900,348
EXPENDITURE			
Administration	$ 1,847,439	$ 2,002,548	$ 1,828,865
Electrical Energy Purchased for Resale	14,908,348	15,350,200	14,116,223
Transmission and Distribution	350,763	272,750	396,432
Customer Billing and Collection	320,509	312,500	353,072
Other	71,450	56,400	64,188
Transfer to Own Reserve - Future Expenditures	23,000	-	77,230
Contributions to Capital Fund	658,075	1,290,058	906,436
Transfer to General Revenue Fund	1,785,293	3,340,000	945,293
Transfer to General Capital Fund	1,554,707	-	1,554,707
Transfer to/(from) Surplus	501,678	248,294	657,902
TOTAL EXPENDITURE	$ 22,021,262	$ 22,872,750	$ 20,900,348

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

ELECTRIC SYSTEM UTILITY
Capital Fund

Statement of Financial Position

December 31, 2005
(With comparative figures for 2004)

	2005	2004
ASSETS		
FIXED ASSETS		
Engineering Structures	$ 19,717,344	$ 18,625,602
Buildings	1,835,556	1,795,275
Machinery and Equipment	423,181	404,127
Land	61,896	61,896
	$ 22,037,977	$ 20,886,900
LIABILITIES AND EQUITY IN CAPITAL ASSETS		
EQUITY IN CAPITAL ASSETS	$ 22,037,977	$ 20,886,900
	$ 22,037,977	$ 20,886,900

See accompanying notes to the financial statements

TREASURER

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

ELECTRIC SYSTEM UTILITY
Capital Fund

Statement of Equity in Capital Assets

December 31, 2005
(With comparative figures for 2004)

	2005	2004
BALANCE, BEGINNING OF YEAR	$ 20,886,900	$ 19,678,673
ADD		
Utility Revenue Fund	658,075	906,436
Other Contributions	493,002	301,791
	1,151,077	1,208,227
BALANCE, END OF YEAR	$ 22,037,977	$ 20,886,900

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

ELECTRIC SYSTEM UTILITY

Statement of Capital Financing

December 31, 2005
(With comparative figures for 2004)

	2005	2004
FINANCES ACQUIRED		
Transfers from		
Utility Revenue Fund	$ 658,075	$ 906,436
Other Contributions	493,002	301,791
	$ 1,151,077	$ 1,208,227
FINANCES APPLIED		
Expenditure for Fixed Assets	$ 1,151,077	$ 1,208,227
	$ 1,151,077	$ 1,208,227

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

Debt Issued and Outstanding
December 31, 2005

Number	Issue Date	Purpose	Issue Amount	Outstanding Amount	Term (Years)	Maturity	Rate	Payee	2006 Payments Interest	2006 Payments Principal
8858	08-May-89	Okanagan Lake Pump Stn	350,000	99,587	20	2009	10.90	R.D.O.S.	22,750	10,585
9504	12-Apr-95	Water Treatment Plant	1,000,000	619,612	20	2015	4.75	R.D.O.S.	47,500	30,243
9542	01-Dec-95	Water Treatment Plant	3,000,000	1,858,836	20	2015	7.75	R.D.O.S.	240,000	90,728
9608	01-Jun-96	Water Treatment Plant	1,200,000	799,834	20	2016	7.25	R.D.O.S.	93,000	36,291
			5,550,000	3,377,869					403,250	167,847
8903	09-Nov-89	Sewer - Treatment Plant	2,500,000	711,341	20	2009	6.5	R.D.O.S.	162,500	75,606
8962	15-May-90	Sewer - Treatment Plant	1,200,000	416,890	20	2010	6.5	R.D.O.S.	78,000	36,291
			3,700,000	1,128,231					240,500	111,897
20005	12-Apr-00	RCMP Building	2,500,000	2,082,227	20	2020	6.45	R.D.O.S.	161,250	75,606
20046	07-Nov-00	RCMP Building	1,500,000	1,249,336	20	2020	6.36	R.D.O.S.	95,400	45,364
200123	21-Dec-01	Government Street	1,380,000	180,000	5	2006	Variable	M.F.A.	200	180,000
200315	22-Apr-04	Storm Sewer	337,500	327,293	20	2024	4.86	R.D.O.S.	16,403	10,207
2004-16	25-Oct-04	Parks - Land Acquisition	1,680,000	1,629,192	20	2024	4.975	R.D.O.S.	83,580	50,808
2004-18	25-Oct-04	Road Works - South Main St	195,000	189,103	20	2024	4.975	R.D.O.S.	9,701	5,897
2004-19	25-Oct-04	Road Design - Main St	150,000	145,464	20	2024	4.975	R.D.O.S.	7,463	4,536
2004-20	25-Oct-04	Parks - Integrated Waterfront	550,000	533,366	20	2024	4.975	R.D.O.S.	27,363	16,633
2004-21	25-Oct-04	Parks - Youth Park	50,000	48,488	20	2024	4.975	R.D.O.S.	2,488	1,512
2004-11	06-Apr-05	Wine Information Centre	800,000	800,000	20	2025	5.1	R.D.O.S.	40,005	31,160
2004-20	06-Apr-05	Parks - Integrated Waterfront	520,000	520,000	20	2025	5.1	R.D.O.S.	26,004	20,254
2004-21	13-Oct-05	Parks - Youth Park	150,000	150,000	20	2025	4.17	R.D.O.S.	6,255	5,037
2004-18	13-Oct-05	Parks - Integrated Waterfront	825,000	825,000	20	2025	4.17	R.D.O.S.	34,403	27,705
			10,637,500	8,679,469					510,515	474,719
			$ 19,887,500	$ 13,185,569					$ 1,154,265	$ 754,463

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

CEMETERY PERPETUAL CARE TRUST FUND

Statement of Financial Position

December 31, 2005
(With comparative figures for 2004)

	2005	2004
ASSETS		
BANK TERM DEPOSITS	$ 625,000	$ 590,000
RECEIVABLES		
General Revenue Fund	12,949	4,214
ACCRUED INTEREST	14,601	14,443
	$ 652,550	$ 608,657
SURPLUS		
BALANCE, BEGINNING OF YEAR	$ 608,657	$ 564,660
Add:		
Care Fund Contributions	23,965	19,030
Interest Earned	19,928	24,967
	$ 652,550	$ 608,657

See accompanying notes to the financial statements

TREASURER

PENTICTON PUBLIC LIBRARY

(Established under the Provisions of the
Public Libraries Act of British Columbia)

STATEMENT OF REVENUE AND EXPENDITURE

December 31, 2005
(With comparative figures for 2004)

	2005	2004
REVENUE		
Grant City of Penticton		
- Operating	$ 659,535	$ 644,633
- Building and Administration	163,217	159,000
- Equipment Depreciation	20,222	22,076
- Capital	7,124	5,124
Grant Province of B.C. - Operating	102,946	87,831
Grant - Outlook/Legal Services Society	2,116	2,092
Okanagan Regional Library Contract	49,610	51,150
Interest Earned	2,549	2,276
Fines and Fees	27,104	21,099
Miscellaneous Revenue	10,553	23,118
Photocopy Revenue	2,524	3,057
Donations	2,471	2,054
Legacy/Estate Funds	4,270	3,595
Equipment Replacement Fund	20,385	-
	1,074,626	1,027,105
Surplus at Beginning of Year	75,199	57,328
Total Revenue	1,149,825	1,084,433
EXPENDITURE		
Building and Administration	163,216	159,000
Equipment Allowance	20,222	22,076
Acquisitions - Books	147,410	142,461
- Periodicals	15,430	18,790
- Software	4,190	948
- Videos/Audio/Online Subscriptions	7,270	6,634
Book Binding	1,440	4,037
Equipment Maintenance	12,988	12,337
Office Supplies	35,248	30,259
Postage, Freight, Courier, Mileage	5,576	5,335
Salaries and Benefits	589,049	588,354
Staff/Trustee Training and Development	2,989	4,963
Telephone/Fax/Internet	5,044	5,269
Program Support	207	145
Legacy/Estate Projects	1,067	3,502
Total Operating Expenditure	1,011,346	1,004,110
Capital Equipment	27,509	5,124
Total Expenditure	1,038,855	1,009,234
SURPLUS AT END OF YEAR	$ 110,970	$ 75,199

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

Financial Statistics
(Unaudited)

	1996**	1997**	1998**	1999**	2000**
Population	30,987	30,987	30,987	30,987	30,987
Assessed Values - General					
Land	1,018,854,562	1,012,811,459	1,040,610,909	1,033,714,732	995,628,640
Land Exempt	133,761,705	123,682,126	149,736,660	150,917,460	142,114,754
Taxable Land	885,092,857	889,129,333	890,874,249	882,797,272	853,513,886
Improvements	1,292,112,550	1,316,138,957	1,323,537,812	1,320,489,436	1,337,405,103
Improvements Exempt	184,779,178	203,523,095	190,320,833	183,869,582	192,252,631
Taxable Improvements	1,107,333,372	1,112,615,862	1,133,216,979	1,136,619,854	1,145,152,472
Total Taxable Assessment	1,992,426,229	2,001,745,195	2,024,091,228	2,019,417,126	1,998,666,358
Per Capita	64,299	64,600	65,321	65,170	64,500
Assessment Actually Taxed					
General Purposes	1,990,775,229	1,978,674,195	2,001,292,228	1,996,437,126	1,975,032,758
School Purposes	1,987,042,829	1,996,464,495	2,018,139,812	2,013,650,310	1,998,666,358
% Improvement Taxes	100.00%	100.00%	100.00%	100.00%	100.00%
Tax Levy					
General and Debt	11,652,354	12,027,944	12,598,784	12,830,351	13,390,448
School	11,164,085	11,297,397	11,436,496	11,648,997	11,630,813
Regional Hospital	776,646	797,707	902,325	917,656	962,087
Other (Excluding Irrigation)	4,833,946	4,593,328	4,789,742	4,852,941	5,012,389
Total Tax Levy	28,427,031	28,716,376	29,727,347	30,249,945	30,995,737
Total Levy (Including Irrigation)	28,567,946	28,856,371	29,867,421	30,390,103	31,136,579
Per Capita	922	931	964	981	1,005
General Tax Rate	5.384/8.076	5.529/8.294	5.706/8.559	5.805/8.708	6.128/9.192
Tax Collection					
Current Taxes and Irrigation	27,960,965	28,255,700	29,329,134	29,771,871	30,565,077
% Current Levy Collected	97.9%	97.9%	98.2%	98.0%	98.2%
Arrears and Delinquent	811,531	600,954	732,150	716,637	687,640
Total Taxes Collected	28,772,496	28,856,654	30,061,284	30,488,508	31,252,717
% of Current Levy	100.7%	100.0%	100.6%	100.3%	100.4%
Arrears of Taxes	174,989	257,298	240,410	263,097	250,136
Per Capita	5.65	8.30	7.76	8.49	8.07
Debt					
Gross Debt	12,868,942	11,937,294	11,042,545	9,994,490	13,926,419
Per Capita	415	385	356	323	449
Analysis of Debt (Gross)					
Water Supply System	6,127,482	5,828,024	5,513,594	5,183,443	4,836,783
Sewer System	5,010,812	4,272,089	4,058,625	3,545,947	3,007,196
General	1,730,648	1,562,382	1,470,326	1,265,100	6,082,440

** 1996 Census

	2001***	2002***	2003***	2004***	2005***
Population	30,985	30,985	30,985	30,985	30,985
Assessed Values - General					
Land	999,082,549	1,000,376,974	1,022,385,901	1,141,538,471	1,430,440,541
Land Exempt	141,266,606	140,756,657	148,912,016	172,413,710	177,810,827
Taxable Land	857,815,943	859,620,317	873,473,885	969,124,761	1,252,629,714
Improvements	1,344,556,402	1,391,386,900	1,490,127,901	1,654,513,500	1,941,305,110
Improvements Exempt	192,570,333	197,516,990	202,748,963	207,550,130	227,310,600
Taxable Improvements	1,151,986,069	1,193,869,910	1,287,378,938	1,446,963,370	1,713,994,510
Total Taxable Assessment	2,009,802,012	2,053,490,227	2,160,852,823	2,416,088,131	2,966,624,224
Per Capita	64,864	66,274	69,739	77,976	95,744
Assessment Actually Taxed					
General Purposes	1,986,275,412	2,030,243,827	2,137,700,023	2,392,425,331	2,942,179,424
School Purposes	2,004,177,143	2,047,566,849	2,154,719,592	2,409,204,900	2,958,710,508
% Improvement Taxes	100.00%	100.00%	100.00%	100.00%	100.00%
Tax Levy					
General and Debt	14,140,577	14,882,630	15,926,729	17,012,508	18,075,952
School	11,671,618	11,913,141	12,152,121	12,637,459	13,581,087
Regional Hospital	1,982,487	1,979,438	1,980,515	1,961,408	1,785,679
Other (Excluding Irrigation)	5,102,716	4,995,324	5,008,308	5,179,878	5,382,474
Total Tax Levy	32,897,398	33,770,533	35,067,673	36,791,253	38,825,192
Total Levy (Including Irrigation)	33,037,202	33,910,115	35,206,896	36,930,550	38,967,825
Per Capita	1,066	1,094	1,136	1,192	1,258
General Tax Rate	6.436/9.654	6.6295/9.9443	6.753/10.1295	6.4781/9.7172	5.3623/9.931
Tax Collection					
Current Taxes and Irrigation	32,588,106	33,353,856	34,685,099	36,625,786	38,475,389
% Current Levy Collected	98.6%	98.4%	98.5%	99.2%	98.7%
Arrears and Delinquent	412,751	748,867	598,402	586,147	405,886
Total Taxes Collected	33,000,857	34,102,723	35,283,501	37,211,933	38,881,275
% of Current Levy	99.9%	100.6%	100.2%	100.8%	99.8%
Arrears of Taxes	505,580	205,809	178,225	121,940	112,475
Per Capita	16.32	6.64	5.75	3.94	3.63
Debt					
Gross Debt	13,035,934	11,841,379	10,348,553	12,176,427	13,185,569
Per Capita	421	382	334	393	426
Analysis of Debt (Gross)					
Water Supply System	4,472,790	4,130,719	3,891,909	3,641,158	3,377,869
Sewer System	2,441,022	1,857,736	1,575,393	1,357,265	1,128,231
General	6,122,122	5,852,924	4,881,251	7,178,004	8,679,469

***2001 Census

THE CORPORATION OF THE CITY OF PENTICTON
BRITISH COLUMBIA

Financial Statistics
(Unaudited)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Public Utilities										
Sewer										
Operating Profit/(Loss)	(340,837)	(60,064)	(52,404)	98,945	144,617	182,196	(47,480)	(38,384)	(187,045)	800,290
Domestic Water & Irrigation										
Operating Profit/(Loss)	-	(3,490)	570,491	631,749	(551,858)	408,648	407,987	250,173	(672,206)	87,436
Electric Light										
Operating Profit/(Loss)	1,127,210	464,019	1,843,025	2,048,282	2,340,634	2,663,070	2,897,239	2,474,864	1,949,675	2,690,601
General										
Building Permits Issued	41,530,318	23,157,321	33,196,718	22,619,600	18,796,519	31,093,176	35,928,297	46,681,982	52,227,735	74,663,879
Liability Servicing										
Capacity Available								11,529,751	12,914,033	13,418,514
Borrowing Power (net)	58,612,482	61,786,435	70,561,779	71,721,589	72,711,489	79,586,210	81,821,206	n/a	n/a	n/a